

APEGA's Position on ASET's Scope of Practice Proposals

Fall 2017 Consultation Results

APRIL 2018



The Association of Professional
Engineers and Geoscientists of Alberta

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1.0 About the Consultation

1.1 Background

This summary report gathers the feedback, data, and insights provided by members, permit holders, and non-member stakeholders regarding APEGA's position on proposals put forward by the Association of Science and Engineering Technology Professionals of Alberta (ASET) to the Government of Alberta (GoA) as part of the legislative review project.

As one of Alberta's self-regulating professional bodies, it is important that APEGA ensures its governing legislation continues to protect the public interest and reflects current practices in business and industry. That is why APEGA's Council identified the legislative review project as a key strategic initiative three years ago and has been working with the GoA and ASET on the development of recommendations to legislation.

Consultation is a crucial part of the legislative review process. The *Engineering and Geoscience Professions Act (EGP Act)* defines our members' responsibilities, and it is important all APEGA members and stakeholders have a say in possible changes to the legislation and be kept up to date on the legislative review project process. To date, five rounds of consultation and information sessions with members and permit holders have been conducted—two in 2015, two in 2016, and one in 2017. These sessions covered more than 80 recommendations, which Council endorsed and submitted to the government.

The consultation in October 2017 was specific to the ASET submission and set out to educate members, permit holders, and stakeholders on APEGA's position.

1.2 Council's Response to Input

APEGA's Council uses the feedback from all in-person consultations, emails, and surveys to evaluate proposed recommendations for changes to the Act. These recommendations address solutions that members, permit holders, statutory boards and committees, the public, and the GoA identify as important and relevant to our professions.

1.3 Fall 2017 Information Sessions

Under the *EGP Act*, APEGA and ASET jointly regulate the province's more than 800 professional technologists (P.Tech.s). The P.Tech. designation is a career path for technologists to gain an independent scope of practice.

Under the joint regulation approach for P.Tech.s, joint statutory boards and committees make decisions affecting the licensing and practice of P.Tech.s. The boards and committees are made up of an equal number of APEGA-appointed and ASET-appointed members, as well as one public member appointed by the provincial government. Joint regulation of the P.Tech. designation has been in place since 2009 and is unique to Canada.

ASET is solely responsible for the registration and oversight of other categories of technologists, including certified engineering technologists (C.E.T.s) and certified technicians (C.Tech.s). These designations are held to a code of ethics and mandatory continuing education, as are all other licensed professionals under the *EGP Act*.

Given the joint regulatory mandate in the *EGP Act*, APEGA has worked closely with ASET and the government since the legislative project began. While APEGA and ASET agreed on some of the recommendations submitted to government, ASET has a divergent perspective on several critical areas, including an independent scope of practice and joint regulation of P.Tech.s.

ASET is proposing three main changes to the Act:

1. ASET wants to eliminate APEGA's involvement in joint regulation of P.Tech.s.
2. ASET wants to expand the scope of practice for P.Tech.s.
3. ASET wants to introduce a new, independent scope of practice for Certified Engineering Technologists (C.E.T.s).

APEGA uses three guiding principals when reviewing recommendations for change:

- APEGA holds paramount public safety of Albertans
- APEGA will continue to effectively regulate the practises of engineering and geoscience to serve the public interest in Alberta
- APEGA supports a harmonized approach for labour mobility of technologists in Canada

APEGA does not believe the changes put forward by ASET are in the public interest. As a result, APEGA and ASET submitted separate submissions to government. Ultimately, the government will make the final decision on any changes to the Act.

APEGA conducted a series of information sessions in October 2017 to keep members and permit holders up to date on the legislative review project process and to ensure they fully understood APEGA's position to the ASET proposals. All stakeholders were provided with links to the following background material: APEGA's video explaining its position to ASET's submission to the Government of Alberta, APEGA's response to the ASET submission, and ASET's backgrounder on C.E.T.s.

This report summarizes APEGA's findings from information sessions, webinars, and an associated survey.



2.0 Methodology

APEGA used a number of methods to provide information to members, permit holders, and non-member stakeholders and to seek feedback during the October 2017 information meetings. These methods included:

- Holding 23 in-person and webinar information sessions for members and permit holders, with in-person sessions held in Calgary, Edmonton, Grande Prairie, Fort McMurray, Red Deer, and Lloydminster. A total of 573 individuals registered for these sessions.
- Posting an information video on the APEGA website and conducting a survey for members, permit holders, and stakeholders from October 2017 to February 2018. A total of 2,588 individuals viewed the video, and 536 individuals completed the survey.
- Receiving email submissions directly.

Downey Norris & Associates Inc. facilitated the in-person consultations and developed the feedback summary. SurveyMonkey was used to conduct the survey. Detailed survey responses can be found in Appendices 1 and 2.



3.0 Overview of APEGA's Position on ASET's Three Proposals

3.1 Elimination of Joint Regulation of P.Tech.s

APEGA does not support this proposal. P.Tech.s practise engineering and geoscience within a defined scope of practice, based on their education and experience. APEGA, as the provincial engineering and geoscience regulator, must be involved in regulating P.Tech.s.

The proposed removal of APEGA-ASET joint boards and committees would create two engineering and geoscience regulators acting independently. This introduces the risk of unclear and inappropriate scopes of practice, which could jeopardize public safety by causing confusion over the roles and responsibilities of different professionals.

3.2 Expanded Scope of Practice for P.Tech.s

APEGA does not support this proposal, which would give P.Tech.s the authority to authenticate and to take responsibility for work beyond their education and experience. The proposed expanded scope of practice would give P.Tech.s the same scope of practice as an APEGA professional licensee, but without the additional education or experience. The two designations were implemented in 2009 in recognition of the different competency levels of each.

3.3 Introduction of a New, Independent Scope of Practice for C.E.T.s

APEGA does not support giving C.E.T.s an independent scope of practice, nor does APEGA support the proposal that C.E.T.s would not be required to work under the direct supervision of a licensed professional, as it threatens public safety. No other province or territory provides an independent scope of practice to C.E.T.s. Currently, C.E.T.s must work under the direct supervision of a professional engineer, a professional geoscientist, a professional licensee, or a professional technologist (collectively referred to as licensed professionals).



4.0 Summary of Key Themes Emerging from the Fall 2017 Consultations

The following key themes emerged from the questions and comments received from participants and respondents during the fall 2017 sessions, webinars, direct emails, and survey results and comments. Detailed comments and questions are contained in Appendices 1 and 2.

Overall, the vast majority of participants and respondents believed they understood ASET's proposals. However, many did not believe they understood ASET's rationale for bringing these proposals forward nor how they would be implemented while protecting public safety. Many respondents wanted more detailed information from ASET and to better understand the motivation behind its proposals.

- Almost all participants and respondents believed they understood APEGA's concerns with ASET's proposals.
- The vast majority of participants and respondents supported APEGA's rejection of the three ASET proposals. A small number believed they were unable to support APEGA's position until they have a better understanding of the proposals, including ASET's rationale and how the proposals would be implemented. A small number believed APEGA is misrepresenting the ASET proposals or exaggerating their potential negative effects.
- Many participants and respondents believed there is a high level of misunderstanding among members, employers, and the public regarding the differences between the various designations. Many also believed there is a lack of understanding of what work can and should be performed by each designation. A number of participants stated there are too many different designations, and they should be compressed into a smaller number to facilitate better understanding and governance.
- The two primary concerns with the ASET proposals stated by were:
 - the increased risk to public safety if the ASET proposals were adopted, given that less qualified individuals would be undertaking complex work
 - the increased confusion among employers and the public as to what work could be performed by the various designations, in turn increasing risk to the public.

- A significant number of participants and respondents stated there should only be one regulatory body for the engineering and geoscience professions, including technologists, and that APEGA should be that sole regulator.
- A number of participants and respondents wanted to know what actions APEGA will be taking to oppose the ASET proposals and what actions individual members can take to support APEGA. Associated with this was a desire to better understand what the government decision-making process is and when decisions will be made. A number of individuals voiced the opinion that APEGA needs to be proactive and aggressive on this issue and has perhaps been too passive and reactionary in its relations with government in the past. Some believed there might be a way of reaching a compromise with ASET.
- APEGA was complimented for the quality of the information video and the information sessions in terms of informing members and clarifying the issues involved.

5.0 Survey Results

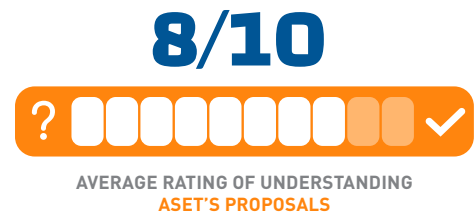
5.1 Numerical Results from Survey

The following are the numerical results from the survey:

TOPIC #1 Understanding ASET's Proposals

Survey participants were asked to rank their understanding of ASET's proposals on a scale of 0–10, with 0 representing no understanding and 10 representing full understanding.

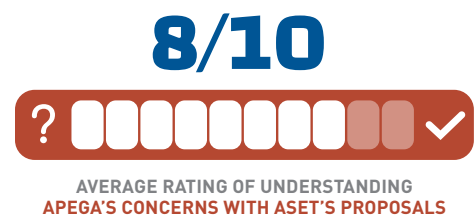
The average rating provided by respondents in terms of understanding ASET's proposals was **8 out of 10**.



TOPIC #2 Understanding APEGA's Concerns

Survey participants were asked to rank their understanding of APEGA's concerns with ASET's proposals on a scale of 0–10, with 0 representing no understanding and 10 representing full understanding.

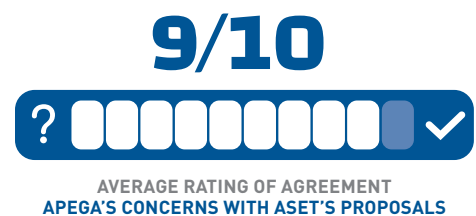
The average rating provided by respondents in terms of understanding APEGA's concerns with the ASET proposals was **8 out of 10**.



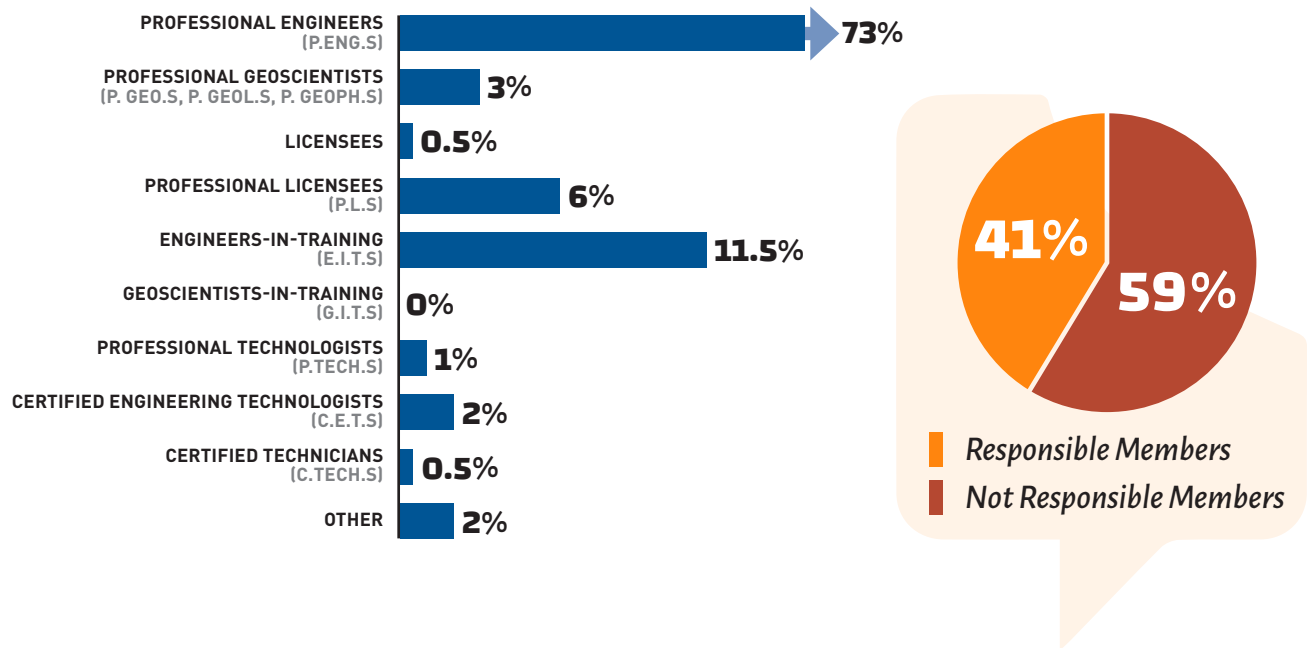
TOPIC #3 Agreement With APEGA's Concerns Regarding ASET's Proposals

Survey participants were asked to rank their level of agreement with APEGA's position regarding ASET's proposals on a scale of 0–10, with 0 representing no agreement and 10 representing full agreement.

The average rating provided by respondents in terms of agreement with APEGA's concerns with the ASET proposals was **9 out of 10**.



5.2 Profile of Survey Respondents



5.3 Materials Reviewed by Survey Respondents



11% of respondents had **not read or reviewed** any of the above items.

16% of survey respondents had **attended** an information session or webinar.

85% of respondents had **not attended** an information session.



6.0 Conclusion

Given the current impasse between APEGA and ASET on the ASET proposals, and the separate submissions by APEGA and ASET, the review of the *EGP Act* is currently on hold by the Government of Alberta. A probable provincial election in early 2019 may further delay government consideration of changes to the *EGP Act*.

APEGA Council will consider member input and decide on next steps as part of the overall strategy with the Government of Alberta. The insight provided by members, permit holders, and non-member stakeholders is a valuable part of the process, and APEGA appreciates the time taken by all who have provided input.

Council will continue to provide information on the legislative review project and future activities.

Appendix 1

Verbatim Comments from Fall 2017 Information Sessions & Comments Emailed to APEGA (Members and Non-Members)

The following individual comments and questions are from the fall 2017 Information Sessions and from input received directly by email to APEGA, regarding APEGA's response to ASET proposals in the legislative review process.

Comments are presented as submitted and have not been edited.

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1.0 Information Session & Webinar Comments & Questions



Do you have any questions for clarity and understanding related to the information provided in the video?

- Has ASET seen APEGA's interpretation of their words/submission to government?
- Do you know why ASET is asking for these changes? What is the motivation for changing something that is working well? ASET members have the ability to practice independently if they chose to go through the path that is set out for them. By pushing this forward ASET may be more out of sync with the rest of the country.
- Specific issues of ability to practice the profession have not been identified by ASET.
- Architects are permitted to have their own company and stamp their work as long as it is within the diagram 100%. Is this a correct statement?
- What does the S stand for in ASET? Does it include any other area such as biological science or things that are generally passed by science, but not necessarily geoscience?
- It would be good to have some insight about what is going to happen in the next election so we "don't spin wheels".
- Does ASET have full mobility/transferability across Canada as engineering and geoscience does?
- What do other professional engineering associations across Canada feel about this type of proposal?
- In other provinces, what job requires a technologist accreditation to do that job? If you want to practice as an engineer in other provinces you need a permit to practice, but with ASET you are drafting and preparing drawings that still have to be decided by the engineer. Does the technologist go through a process of being registered? They can transfer from province to province right now, which is okay because they don't have to sign off on anything, but if they become a PT then that's not transferrable.
- Engineering companies may want technologists to do drafting and field work, but may not want the technologists to be accredited because engineers will sign off on their work.

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Do you have any questions for clarity and understanding related to the information provided in the video?

- Who is qualified to do a certain job? For example: The crane code CSA exec. 150 states that an inspector of a crane has to be approved by an engineer. This will mean that the C.E.T. is eligible to say who is qualified or not qualified to inspect cranes. The problem right now is that there is no course to inspect cranes. The engineer creates the procedures to inspect the crane to ensure there is competence in doing this. It will be interesting to see the outcome of this because there are different interpretations of codes and standards in various scenarios. C.E.T.s do more of the routine work and when there is a problem it is dealt with by the engineers. C.E.T.s do not have the experience.
- Employment concerns – ASET members want professional engineer jobs.
- What are the differences between the education requirements for P.L.s, PTs and C.E.T.s?
- APEGA's publications online and in this presentation state that ASET is requesting a defined scope of practice without oversight. This is incorrect and misleading. ASET is not requesting 'practice without oversight'.
- How does the existing Act give authority to APEGA and ASET? Are they both named in the Act? How would that change with the new legislation?
- Can you clarify the difference in the work between a C.E.T. and someone just graduated from tech school and does not have two years of experience?
- Why is ASET proposing these changes? Why is ASET not encouraging their members to pursue different paths leading to advancement? What is APEGA's understanding of why ASET is making this type of proposal? What is ASET's position/point of view? This is a key piece of information to understand and there is 'big gap' without this.
- Do we know how many PTs and P.L.s are in Alberta? Is this a legitimate way to advance or does ASET think that no one can obtain those designations?
- Is there any thought about combining APEGA and ASET under one regulatory body? Why not have a 'big tent' legislation?
- This has been an ongoing issue for AB for many years/decades. (2 participants) What is going on in other provinces? BC has all the various engineering professionals under one association.
- The graph in the video missed key points: 1) it suggests professional engineers can work in a limited breadth and depth, and 2) the concept that P. Tech.s can only practice within a small band of breadth is wrong because it suggests that P. Tech.s and C.E.T.s cannot work an activity that is extremely small breadths and depths. With time, complex methodologies in engineering are solidified into codes and standards. So, what is wrong with



Do you have any questions for clarity and understanding related to the information provided in the video?

a P.L. working within that established standard? This introduces the concept of 'limited'. Scope should be defined by the actual scope of practice, not by a blanket statement of limited.

- In the graph, the big box refers to what is regulated it does not mean that any engineer or geo-scientist can do anything. The responsibility is on the professional to work within their competencies. The responsibility is on the regulator to impose limits when required, rather than putting it on the professional.
- ASET was not present at this year's APEGA AGM. Was this deliberate, out of protest?
- What has ASET said against a P.L. designation? Why would they want to expand a PT to a P.L.?
- Are some of the issues with ASET rooted in the history with the P. Tech. and P.L. designations versus the core P. Eng. and C.E.T. roles?
- How is the mobility different between the P. Eng. and P. Tech.?
- Are P. Eng.s recognized by other provincial regulatory bodies?
- Are there other provinces that don't recognize P.L.s?
- Is the four-year degree the minimum education requirement for engineers? Can you become an engineer without completing the degree?
- What was the reason for APGEA to regulate P. Tech.s?
- Was APEGA consulted when the P. Tech. regulation came about and did APEGA agree with the limited scope of practice
- There may be an error in the presentation regarding education and experience requirements for P. Tech.s and P.L.s.
- Why is ASET doing this? It is critical to know ASET's justification for their proposal to government and ASET's reactions and comments to APEGA's proposal.
- You might have two techs doing the same job with the same responsibilities, however one tech has graduated from an approved/certified tech course and the other from a non-certified tech course. Is it fair to say that the individual with the non-certified course would likely not qualify as a P.L.?
- From an employer's perspective there is nothing wrong with ASET's proposal except that the C.E.T. should not have four years instead of two years' experience. There's not a lot of risk to the public by opening up the codes and standards to other people in the industry because there are many checks, balances, inspection processes, and certifying bodies looking at people's work before it is approved to ensure safety.



Do you have any questions for clarity and understanding related to the information provided in the video?

- We should not rely on the layered system for safety code inspections, field reviews, or other inspection processes to protect the public.
- ASET's proposal reflects what's going on in the industry and the engineering industry have been causing this by 'gutting the middle' and abdicating more designs to C.E.T.s or other levels of technologists. Engineers are electronically rubber stamping the work.
- The industry's layered system is there for employers to run a profitable business and to provide society and industry with the engineering that's required. ASET provides aspects of this layering within the system.
- Where is the P.L. designation going with APEGA? If the P.L. designation is eliminated it would take away a layer within the system.
- How long will it take to resolve this issue? As a business owner it is difficult to know who to hire. We don't know how to build and develop technologists, how to guide them in their careers, and how to support them in their education and growth.
- What is the path from P.L. to P. Eng.? Is there any time limitation to expand the scope?
- What is required of a P. Tech. to apply for a P.L. designation?
- Is ASET proposing that the P. Tech. and P. L. designations will no longer be under APEGA and that ASET, at their discretion, can award/approve P. Tech. and P.L. designations? Who will be awarding the designations – is it ASET or APEGA?
- ASET wants the P. Tech. and P.L. designations to be equivalent; they want authenticating authority under ASET's jurisdiction for the P. Tech.
- What is ASET's thinking behind this? Why do they think this is reasonable to propose?
- Is Alberta the only province with the P. Tech. and P.L. designations?
- It seems that Alberta has the most technologists and to add another level is not in line with other provinces.
- Can they make a comparison between RNs and LPNs? LPNs have two years of education and RNs have four years. The LPN scope of practice is essentially sitting with the RNs.
- Is there any precedence that's been drawn with other professions, such as nursing and medicine? Would any politician want nurses to have the full breadth to practice as a doctor? That's an easy 'no'. Would they allow a paralegal to argue in court? No. So how come this [engineering] is even a conversation?



Do you have any questions for clarity and understanding related to the information provided in the video?

- ASET is comparing a two-year certificate to a four-year degree. Are academic institutions involved, are they saying anything? Has the University of Alberta commented on this?
- Wouldn't universities have a stake in this too? Why would someone get a four-year degree when they could obtain a two-year certificate and basically do almost the same work as an engineer?
- Where can members of the public see the scopes of practice for P. Tech.s and P.L.s? Does it say on their license?
- There's a lot of grey area. What is routine application? What is outside the box?
- The AB building code is very clear when professional authentication is and is not required – building size, designs, etc. That basically eliminates the issue of the C.E.T., which is concerning, but not to the point of the building code, because in a situation where authentication is not required the C.E.T. generally does that job. But, when it comes to authentication, traditionally the inspection authority looks for an APEGA stamp. Now what will be an acceptable standard in the eyes of the inspection authority? Are we saying that the P. Eng., P.L., and P. Tech. stamp is acceptable as long as it is in their scope?
- What is the legislation going to say? Right now, the definition of a professional engineer is clear – a professional engineer is someone licenced by APEGA as dictated in the EGP. Will this definition extend to P.L.s and P. Tech.s?
- Is ASET proposing that, without any oversight from APEGA, they can be permitted to award a P. Tech. designation which carries the same designation to the inspection authority as a P. Eng.?
- What is the E.I.T. designation?
- Is there any indication of which way the government is leaning? How can we stop this?
- Is ASET proposing that a C.E.T. could basically do the work of a P. Tech. or P.L.?
- Is ASET proposing that a C.E.T. can do a 'bunch of work' and not authenticate?
- An inspection, for example from OHNS, may result in a request for a letter from a P. Eng. Would the changes ASET is proposing imply that P.L.s and P. Tech.s would be able to supply that same type of letter?
- In the event of a major engineering mistake leading to someone appearing before the Tribunal, what will happen if it turns out that a P. Tech., within their scope, authenticated the work. Will the Tribunal be held by strictly by ASET?

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Do you have any questions for clarity and understanding related to the information provided in the video?

- It seems counter-intuitive. If a building collapsed, the person front and centre would be disciplined by APEGA.
- Is there any way we can leave this up to somebody who is not a politician? If there is a stalemate, it seems irresponsible to have a politician as the final decision-maker.
- The purpose of APEGA is to protect the public from engineers. We need to keep this in mind as we move forward.
- My impression of ASET is that they are not terribly active anywhere. You get the impression that ASET is trying to use this as a leader of change for how technologists are viewed across Canada.
- Is APEGA ok with Members writing their MLAs to influence government re APEGA's position?
- Is this video available on the APEGA website?
- Is ASET's full proposal available for review? APEGA's document outlines three issues only.
- Would you say this is the biggest challenge APEGA is faced with to update the process [the legislative review]?
- Are technologists in other provinces asking for the same type of system/legislation?
- Protected titles – concern about APEGA not putting enough emphasis on the use of the word 'engineering' as either a prescribed, prescriptive, or descriptive type of operations. For example, P. Tech.s are, according to the information in the video, somehow more qualified than the technologists, than the C.E.T.s. APEGA should be removing any link, any juxtaposition of the word 'engineer' from technologists. The titles should be Certified Technologist, Certified Technician. P. Tech. does not have engineer in its title. There is confusion for the public; they do not have a clear understating of what engineering involves. For example, residents in this municipality recently received a letter signed by a C.E.T. with an additional title of Project Engineer. This has caused great confusion about this person's qualifications. We can mitigate some of this confusion by removing the word 'engineer' from the technologist and technician titles.
- Reporting these types of incidents is important. APEGA will immediately act because 'engineer' is a protected title.
- Reporting this type of circumstance does not do any good. There very people involved are acquiescent to the government's longstanding commitment to water down and be all inclusive for various segments of society so that everybody is a member of something. The very process of the legislation

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Do you have any questions for clarity and understanding related to the information provided in the video?

review, which was mandated by the government, to incorporate the technicians, technologists, ASET along with APEGA were 'shoe-horned together' by the provincial government to re-write the legislation. APEGA's arm was twisted to include ASET members as part of the legislation. This was 12 years ago and demarcation should have been established then. ASET is never going to be part of the self-regulating body of professions. The word 'engineer' must be taken out of the technician and technologist titles and the legislation must clearly define what 'engineer' means.

- Is APEGA eliminating the P.L. designation? I thought that this was APEGA's proposal in the original legislative review.
- What are ASET's reasons for the changes?
- Is it APEGA's intention to continue the ongoing path for P. Tech.s to become P.L.s indefinitely into the future or is that going to change?
- What is the difference between the education for a P. Eng. and a P.L.?
- Have we had discussions on this issue with other jurisdictions across Canada?
- Has the medical profession been approached by ASET regarding medical technologists?
- Do you know what ASET's justification is for why it's not an increased risk to the public?
- Does ASET address any of the concerns about risk that their members who are less educated and have less experience are going to be taking on more complex work?
- Has anyone asked the insurance providers whether they would offer E&O coverage to the new designations?
- What is the reason ASET wants this change?
- When is the decision from the government expected?
- Has the government indicated any initial position on ASET vs APEGA submissions? Is there anticipated to be any difference in the government's position varying by the current NDP government versus any position stated by opposition parties?
- It is not clear to me what APEGA might be proposing to meet some of ASET'S concerns.
- What do the other provincial associations think of this? Specifically, P. Eng. associations.



Do you have any questions for clarity and understanding related to the information provided in the video?

- Does APEGA do 'lobbying' regarding changes affecting the Act, i.e., communication directly with government committee chairs / decision makers, outside of the formal process?
- This presentation was clear to me and I agree with APEGA's concerns.
- What are the potential risks to APEGA with the delay in the Government acting on the legislative review?
- Are there currently any other jurisdictions that have two governing acts in Canada? Also, what is it like in the US?
- Has APEGA surveyed the general public to see if they are aware of the potential changes and do they seem to have any concerns?
- Currently other provinces don't recognize APEGA's P. Tech. certification. Do other provinces have a P.L. license that they grant to C. Tech.s directly?
- Did ASET propose to have another level below C. Tech.?
- What is ASET's motivation/rationale for their proposals?
- Have they suggested any improvement/benefit that would come out of this?



Do you feel you understand APEGA's perspective?

- ASET's proposals will be confusing
- I understand what ASET is asking, but I don't understand why.
- Are you informing us or are you asking for our input? Why are we here today?
- No great objection to the status quo as it is for most engineering firms.
- There is no reason to change anything that is working well.
- Can you provide more detail about the scopes of practice for P.Tech., P.L. and C.E.T.s?
- Can a P.L. have a scope of practice that is equivalent to a P. Eng.?
- Is it true that you can obtain a C.E.T. designation without two years of education?
- ASET's proposal to expand the scope for C.E.T.s may cause risk to the public.
- How many P. Tech.s are in AB versus C.E.T.s?
- What is APEGA doing to ensure practitioners have the required education and experience to practice, and to ensure practitioners are using their correct designation/protected title?
- APEGA investigates every scenario where it is suspected that a protected title is being misused. P. Eng.s should bring these issues forward to APEGA.
- Is there a path for a P. Tech. to become a P.L.?
- The title 'P. Tech.' is unique to AB. There is an equivalent to a P.L. in other provinces and there is a path for a P.T to become a P.L.. Is this an opportunity for APEGA to suggest/promote the education career path from C.E.T. to P.L.?
- What is in place to ensure P. Tech.s and C.E.T.s are practising under their defined scopes? Is there a way for employers to do their due diligence to ensure this and ensure that there is no misinterpretation of the scopes of practice?
- What is ASET proposing for the expanded scope for P. Tech.s?
- They [ASET/P. Tech.s] want to be equal as professional engineers in terms of performance.



Do you feel you understand APEGA's perspective?

- Where are the details of ASET's proposal? What's the reasoning for ASET's proposal?
- Applications for the P. Eng. designation are solely decided by APEGA, but applications for the P. Tech. designation are jointly decided by APEGA and ASET, which means ASET can't operate by themselves [can't assign scope independently today].
- ASET is proposing that they alone would determine the scope for the P. Tech.
- From ASET's view, they are professionally incapable of making these kinds of decisions for P. Tech.s.
- It's a matter of defining professionalism. If ASET defines professionalism the same way APEGA does then ASET can still define terms
- Two separate organizations would be problematic for labour mobility.
- Doesn't the P.L. designation cause confusion for mobility as well?
- As a C.E.T., I think the P.L. designation should be eliminated.
- Besides the public safety issue, this can pose considerable issues from a consumer protection point of view, such as 3rd party labs. Most certified labs have a designated chief engineer as part of their QA process; they have processes in place to ensure quality work and accountability. If definitions are changed and the technicians' scope of practice is expanded, how is that going to work for the industry standards, the technical standards? If someone goes to court over some type of failure, the case may not be strong because the court may say that the lab/work/results were not overseen by a professional.
- I support APEGA's position. There is no need to change the way things are currently. The risk to the public is very well articulated. What ASET is proposing would cause confusion. It shows the path forward for the C.E.T.s and P. Tech.s to the P.L. level.
- What is required to be registered as a C.E.T.?
- Is ASET suggesting a limited scope of deciding if professional approval is required, that a person with a two-year diploma and two-year work experience can decide if something requires authentication?
- What is ASET's justification for changing the legislation?
- Do we know ASET's response/comments to APEGA's proposal/recommendations?
- My understanding is that the new mandates are coming directly from government and they are asking us to do this to our legislation to put



Do you feel you understand APEGA's perspective?

it in line with other professions, such as accountants, lawyers, etc. At what point does ASET have a choice to go against those requests coming directly from the government?

- The current model provides clarity – who does what. It is working. While it is complex, we understand what C.E.T.s do, P. Tech.s do, P.L.s do and what P. Eng.s do. By adopting ASET's proposed changes we are adding further to the complexity. Without authenticating, without taking responsibility – how can we put the public at risk?
- Do we know ASET's response/comments to APEGA's proposal/recommendations?
- I thought APEGA was proposing to eliminate the P.L. designation. So, maybe that's part of ASET's initiative.
- APEGA's concerns are clear.
- If ASET is successful with its proposal, what is the impact within the APEGA registration structure? What would change?
- There is no description in the video for the progression for a P.L. to obtain a P. Eng. designation. There is no indication if this is even possible.
- Does ASET propose collapsing C.E.T. and P. Tech. into one role?
- What are APEGA's plans to counter ASET's proposal?
- The Government has put this proposal on hold. 1) What is the timeframe for a decision from the government? 2) What is the government waiting for to make a decision? 3) What are the next steps?
- Based on the ASET proposal, wouldn't that minimize the importance of a degree?
- APEGA and ASET were originally working together before submitting different proposals. What were the reasons that ASET felt it was necessary to submit separately?
- Does APEGA really believe that education/degree is not as important as experience? Would you allow a nurse to perform surgery?
- Pleased that APEGA is taking a stand. We need to dig our heels in on this.
- Disappointed that the original legislative proposal has been modified to create a pathway for technologists to become P.L.s with the authority to stamp. I liked APEGA's original legislative proposal. I was a technologist and I went back to school to become a P. Eng., so that I could stamp. Now, I feel upset because perhaps there was no need for that as there still is a pathway to stamping.



Do you feel you understand APEGA's perspective?

- It's not clear why ASET wants to eliminate the involvement of APEGA in the joint work, board? Why is there a problem with that?
- Why did APEGA not recognize that P. Tech.s should be members of APEGA
- Concerns about expanding scope of practice and expanding authority.
- Not clear about ASET's rationale (advantages and disadvantages) for their proposals. We know what they want, but not why.
- Are GIS technologists included in any other group or in the ASET group? They use technology as their primary task.
- Do we know the extent of ASET's consultation/engagement with their membership?
- Are there any other professions that have joint regulation like this?
- Has the public been put at risk by the forestry profession, which has two separate Acts – one Act for professional foresters and another Act for forestry techs?
- If this is a question for the government and since those two Acts have been around for a number of years, I'm assuming there has been no perceived risk to the public. So, the precedent has already been set for having a body of professionals and a body of technologists. It seems it's a simple matter for APEGA and ASET to cooperate – have APEGA regulate professionals and ASET regulate technologists.
- Forestry does not compare to engineering and geoscience in terms of types of work.
- APEGA's position should be – if you want to practice engineering you must become a P. Eng.. There are two routes to practice engineering, 1) complete a credited degree in engineering and the required work experience, 2) write the professional engineering examinations and complete the required work experience. The issue is that there is a group of people with two years of education from a polytechnic college who want to practice engineering. This represents a watering down of the engineering profession, which is a danger to the public.
- Is it correct that the P.L. designation will be eliminated in the proposed new Act?
- As you described the competencies, you described that you have to spend four years at university to get your education and if you get the education you get that competency. Having dealt with education issues, that approach has been changed in evaluation of competencies and evaluation of competence.



Do you feel you understand APEGA's perspective?

- A P. Eng. is supposed to have certain skills and competencies, and testing proves that. I've had to deal with many international applications. We've run into significant problems within APEGA – they don't know what competencies and individual skills that person is supposed to have. Therefore, it's led to arguments that we are violating human rights, but it's actually that we are not following up education theory in how to prove people are competent. ASET has these skills identified, admittedly they have a smaller scope to work with, but they are much further ahead on doing that evaluation. As I see it APEGA protects the public by regulating the practice of producing engineering and the geosciences. What defines a professional engineer, geologist, or geophysicist if a person is ensuring the professional work or producing it? They should be the same, it's the same title, but APEGA does not separate it. They do it by regulating how the information is produced. I see part of this as a fundamental different approach on how the two organizations regulate.
- APEGA is not there yet, they do not have competency based assessment. How can we criticize somebody else for doing that when we are not there in this regulation?
- What is driving this request by ASET? Do technologists want higher pay or more recognition without paying their dues like a P. Eng..? I do agree that at the end of the day after finishing four years of university you will be there at the top from day one. I'm a graduate from SAIT and the University of Calgary. Many of my peers at SAIT decided not to pursue licencing because it was quite a challenge to go that route.
- ASET's proposal is missing information about how their proposed changes safeguard public safety and interest. Without that their proposals really don't have a foundation and that's difficult for me to understand.
- Is ASET, at this time, able to regulate their members or do they depend on APEGA to be the regulator?
- Have we considered getting rid of the P. Tech. designation? Is that one of the suggestions on the table? Is there value to our association having that designation available?
- With respect to the risk of mobility. Alberta is the only province with a P. Tech. designation. We are alone in and of itself because of that. If there was a time limited path to go from P. Tech. to P.L. then that may actually take care of the P. Tech. issue.
- All the P. Tech.s scope of work is independent and they can authenticate their work.
- What are some of ASET's arguments to move forward? I understand why they want it, but what is backing them? The way we are operating right now under the act and the way the rest of Canada is I don't see that they have too much to stand on to move forward.



Do you feel you understand APEGA's perspective?

- Has the idea of these two associations operating as one been proposed? Is this an option?
- None of the other provinces are even close to this. In Ontario there are a number of engineers' equivalent to [the P.L. in] APEGA and this is not even talked about.
- They [ASET] also talked about a Registered Engineering Technologist (RET) designation.
- Do other provinces have RETs or are they called C.E.T.s?
- Alberta is the only province that could potentially have two regulators.
- The challenge is that we are hearing one voice only on ASET proposals. How can we make a decision or support a decision or how can we put our stamp on this? I am planning to speak with ASET members to get their opinion and understanding of what they want.
- APEGA members have heard from ASET members at their workplaces that they are not aware of what ASET is asking and why.
- Where is the video located for anyone to view?
- Is the P.L. Eng. route still available? There was some talk of this no longer moving forward.
- Are we saying that 'following codes and standards' is engineering or not engineering?
- How do we say that 'following codes and standards' is engineering? There are electricians who take the Canadian electrical code and wire a house just fine without any engineering and they are following code. They are not engineers.
- Will there be a pathway for the P.L. Eng. to P. Eng. as is being done in BC?
- Not sure that we understand the definition of engineering as it was just explained.
- What is ASET's response to APEGA's rejection?
- ASET proposed these three changes. Did APEGA propose that the current EGP stay as it is?
- To follow-up, the motivation for doing that is to strengthen and improve the [legislation]. So, you've given that motivation to ASET?
- Have you had any feedback from the engineering liability insurance carriers? Would this be something that they would embrace?



**Do you feel you understand
APEGA's perspective?**

- Did the government give any preliminary thoughts on two regulators before they asked for responses on the applications [ASET's and APEGA's proposals]? Did they give any idea of what they are thinking seeing that there are two separate applications?
- Has ASET made any effort to explain away the issue of two regulators?
- One of the things that impressed me about the APEGA proposal is that they gave ASET ways to meet their same need; they gave them alternatives that could work within the existing system to progress from C.E.T. to P. Tech. to P.L..
- That's not available today? The method of validating your status as part of ASET's proposal – I thought that was available now.
- Are there any jurisdictions that follow a model similar to what ASET has proposed?



Do you share APEGA's perspective?

- I support APEGA's actions and agree with APEGA's position.
- I would agree with APEGA's position. Key is holding as a priority the public interest.
- I fully agree with APEGA's position and the presentation was clear. Thank you.
- Yes, I do agree with APEGA position based on the given position at this point and appreciate the effort so far. But further to the last questions, we may have to raise our effort in educating the general public on the proposed changes and implications.
- Is there a precedent for judgement by the government for or against APEGA's proposals?
- Industry has evolved – most technologists are now running many programs and industry has not caught up with the fact that technologists are in the trenches doing most of this work. Industry needs to recognize this and make the necessary changes to reflect it and give the technologists the ability to do this work.
- We need to move away from 'them' versus 'us' and perhaps look at becoming one group.
- Times have changed – the work you are doing versus your designation has evolved. This needs to be evaluated.
- I understand what APEGA is saying, but I need more information about where ASET is coming from to make a better decision.
- It seems premature to agree with APEGA's perspective without information and understanding of ASET's perspective and the problem they want to solve with the opportunity they are hoping to realize.
- Simple solution is one regulator across the board.
- ASET's position is posted on their website.
- The information on ASET's website does not reflect the information that is being presented here today, i.e. misleading information such as 'practice without oversight', which is not what ASET is requesting.
- This is an ongoing issue with APEGA and ASET for 20+ years. APEGA's position on this issue is not healthy.
- Listening to some of the history on this issue makes lose confidence in APEGA. Why are we doing this in isolation? Why are we not in joint meetings with ASET?



Do you share APEGA's perspective?

- Are the actual APEGA and ASET proposals/documents available for our review?
- APEGA developed discussion papers without consultation with ASET. ASET was at the table when the papers were produced, but not when they were created.
- APEGA and ASET needs to be focused on public safety. Concern about documents not properly authenticated by P. TECH.s, and accessing and utilizing information from the Internet that may not be correct. Concern about this joint committee to assess the skills of P.L.s and P. Tech.s. We must provide engineering solutions that are safe and sound.
- Concern that there is a potential to have two regulators, which will introduce an element of confusion for clients as well as ourselves. I fully support APEGA to ensure this does not happen.
- I agree with APEGA, but it's frustrating that we do not see and cannot understand ASET's perspective.
- Was APEGA brought on the P. TECH. joint board because they can oversee authentication? It seems that ASET now wants to regulate professionals who can authenticate. Is delineating who can oversee authentication anywhere in the regulations?
- Industry has evolved – most technologists are now running many programs and industry has not caught up with the fact that technologists are in the trenches doing most of this work. Industry needs to recognize this and make the necessary changes to reflect it and give the technologists the ability to do this work.
- We need to move away from 'them' versus 'us' and perhaps look at becoming one group.
- Times have changed – the work you are doing versus your designation has evolved. This needs to be evaluated.
- I understand what APEGA is saying, but I need more information about where ASET is coming from to make a better decision.
- Yes, the APEGA proposals seem reasonable.
- Yes, sure. I agree with APEGA 100%.
- It does seem that APEGA's position is about the public interest and the practice of engineering, whereas ASET's positions are about their members.
- This comment/questions are related more to understanding – APEGA has an oversight role whether the ASET member or the jointly approved ASET member is practicing to the limits of either the scope or depth of complexity.

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Do you share APEGA's perspective?

How is that oversight exercised? Is it effective? Is it working? If it's not working, perhaps that's why ASET is saying let it be in our hands.

- Is the oversight at the time of giving the title or is it also afterwards, during practice?
- What underlies these three issues is two regulating bodies. This is the fundamental issue. It does not make sense to have two regulating bodies for the practice of engineering.
- Does the P. Tech. also have CPD requirements?
- How is the limited scope identified? Is it vaguely or is it narrowed down, for example, compressors, mechanical engineering, etc.? Is it clearly defined?
- How do we make sure that the P. Tech. is not authenticating documents that are not in his/her scope of practice?
- Must understand why ASET is doing this and how they have consulted with their members. We need a better information flow.
- What is the government's process? What is their mechanism to help them make a decision?
- At what point would government step in and take away self-regulation from APEGA and ASET? Understanding that self-regulation was eliminated in Quebec.
- As the government has this on hold, what is the timeframe and what are some of the pressures APEGA is currently under besides the outcome of Quebec and real estate issues? What other real concerns does APEGA feel they need to deal with between now and 2019?
- ASET has several thousand members that do not qualify for the P. Tech. designation, which is a fairly narrow scope. But have several thousand members beyond that who basically don't have any designation; they may not want to be a C.E.T.. APEGA has the broadest definition of geoscience because 'or biology' is included in the definition. However, there is no talk about a CGT. All those members of ASET could become CGTs and fit under either the ASET or APEGA umbrella and have a limited scope of practice. That precedent has been set by the agrologists who have professional agrologists and registered technical agrologists, who have a limited scope of practice. Their competency is a self-assessment of competency. APEGA is missing the boat here because there is a huge number of technologists that have no place, no home. APEGA could be that home for technologists with a CGT designation.
- Agree with what APEGA is doing and they should be doing more. With regard to ASET, APEGA has been reacting. This has been going on for a couple of decades where basically people with polytechnic education want to practice

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Do you share APEGA's perspective?

engineering. Instead of simply reacting to what is a constant pressure, a constant movement, APEGA should strategically take the initiative, which is – if a person wants to practice engineering they must get the four years of academic education, or equivalent exams and experience.

- Agree with APEGA's approach when considering those producing professional services, i.e. consultants. I have questions about where APEGA sits as far as regulating engineering services by owners' groups, governments, owners, large oil companies, and also those in construction because in my review and experience APEGA has no regulations covering those practices. Most often I meet C.E.T.s and P. Tech.s in construction. APEGA is silent on their expectations on how APEGA members should behave in that. In general terms, we are supposed to be ethical and professional in our work, but there are no distinct behaviours that we encourage in those communities.
- Agree with APEGA's approach, but would like APEGA to be more proactive and aggressive in relation to this matter. It seems to be a continual reaction instead of an affirmative action –always responding to the serve instead of making the serve. As an example, the letters after a person's name needs to clearly indicate their designation, C.E.T., P. Tech., or P.L. Eng., but when that person is asked what they do, they can say that they are practicing engineering. The question then becomes – if they are practicing engineering, are they in effect an engineer? It's a blurry line in the legislation and this should be clearly addressed in the amendments coming up because it's not acceptable for a C.E.T., P. Tech., or P.L. Eng. to say that they are in effect an engineer. This is confusing and it will be confusing to the public. The legislation as it is worded now would not necessarily prevent a C.E.T., P. Tech., or P.L. Eng. from describing themselves as engineers. This is something APEGA should address. I disagree with C.E.T.s, P. Tech.s, or P.L. Eng.s describing themselves as engineers if that is in fact what they are doing.
- I experienced the situation described above and it was a catastrophe. A C.E.T. who described himself as an engineer executed a design project, which ultimately led to blasting an 80lb piece of steel through the roof. I can't say for sure it was his fault, but everyone at work believed he was an engineer. I had a hard time getting traction telling everyone that he was actually not an engineer, I'm what you need. Frankly, they didn't care, nobody cared.
- We encounter this issue often. It's as simple as coming from our HR department and assigning a job title to have a technologist being called an engineer or an engineering technologist, to be clearer, would simplify things. APEGA needs to be more aggressive in their approach on this, to regulate this, to be joint self-governance – it has not fallen off the rails right now. Having being a technologist prior to an engineer I know there is a significant



Do you share APEGA's perspective?

difference in taking a two-year diploma versus a four-year degree. APEGA needs to put their foot down on this one for the clarity and safety of the public. A part of ASET's mandate is to allow more foreign engineers or trained people to become certified and practice engineering. We have had issues here where people came in and could not pass our laws and ethics exam never mind the comprehensive exams. We do need to make sure that the people who are titled engineers practicing engineering are in fact qualified to do so. To separate the two agencies would be very confusing and would put the public at risk simply because they don't know. My superiors within the municipal government do not necessarily understand the difference, but when you see P. Eng. you expect P. Eng. If we blur that line to P. Tech., and C.E.T. now, it would make it very difficult and would dilute our system and our profession to a point that would be unsatisfactory and difficult for us to manage.

- I strongly agree with APEGA's position on this matter. I compliment APGEA for the video presented at this session. It cleared up the differences in the scopes of practice. The reference documents provided by ASET were not clear about the distinction between an engineer and a technologist. In one document they say how other technologists in different fields across the country, such as dental technologists and ultrasound technologists, have their own legislation and that members of ASET do not. Many of these technologists from other disciplines seem to be largely equipment operators so their scope of practice is mostly dictated by the type of equipment they operate, whereas in engineering the scope is very broad, we are not limited to a type of equipment. I assume that engineering technologists are also not limited to specific equipment so their scope can be very broad. If technologists' education and experience is limited they should be regulated or supervised by an APEGA engineer who understands their limitations.
- What action do you want us, APEGA members, to take to move this forward? We are all passionate about not accepting ASET's proposals, as we were 12 years ago when council was having identical conversations. ASET has a lot of members and I'm concerned government will think their proposal is awesome and this will go ahead.
- What do you mean by government? There are regulators, members of the civil service, legislators, etc. Who is the government? As APEGA members who can we write to and approach directly to influence these things? The point made earlier about what action can we take makes a lot of sense. I appreciate the value of directly approaching elected officials and government officials and there are tens of thousands of APEGA members who can have a tremendous influence.
- It's good what APEGA is doing – building consensus and sharing information to ensure there is informed consent before they act. In terms of strategy and how to proceed, APEGA should consider using data available to them. Since APEGA is the registrar for applicants they would have a dearth of

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Do you share APEGA's perspective?

information relating to applications from technologists for professional licensure, and they would know which ones and how many of them fall short without further education and experience. Based on that and their experience with evaluating applications, APEGA would know what risks those applicants would pose to the public if they were currently registered for independent practice without third party oversight. That information can be used to persuade and inform government in relation to what the situation is and how it will affect public safety if these changes go through in ASET's favour. APEGA needs to be more proactive and aggressive in using the information available to them.

- Maybe a competency based assessment tool for technologists could be considered as an alternate path to get a resolution. The Australian engineering association has created a competency management framework. They have developed a competency based assessment of levels of engineers. If there was something like that expanded to technologists you would very easily see progression based on competency and competency assurance.
- I would like to understand the preparations behind this
- Is there any other province in Canada that has an organization like ASET involved with professional licensure of engineers and geoscientists?
- How does this serve the best interest of the public?
- Would there be any value in sending messages to show the differences in competencies? In other words, showing some examples, like Elliot Lake recently or other fiascos. To show that this is dummying down of engineering, to avoid that.
- I think it could be really valuable.
- Can you image if we were talking about the medical profession. Anaesthesiologists saying that we can do some operations and we can decide which ones we are going to do. How would the public feel about that? It's a slippery slope.
- I think it's an opportunity to be move in that direction
- Are we saying that an ASET member will never be as competent as an APEGA member?
- If we have the same person from a different education background yet they have over 25 years' experience in the scope, is one more qualified than the other?
- What if your work experience isn't a complex work experience/environment?
- As a professional engineer are you saying you are different even if you work within a non-complex scope?



Do you share APEGA's perspective?

- P. Tech.s and C. Tech.s must prove their competency to address complex problem solving.
- How well accepted is the P. Tech.? How many P. Tech.s do we have in Alberta?
- Is that a more recent phenomenon? Is it trending towards P. Tech. or has it stopped?
- Are the techs seeing value in the P. Tech. designation?
- Prior to the P. Tech. there was the RET, which was a jump from ASET into APEGA's domain. As much as it existed, there were very few in number.
- Is the P.L. less rigorous than the RET?
- Before there always was a path to being able to self-authenticate for the techs, but it was a path that was rarely chosen. Now with the P. Tech., nudging against the top line as it were against the middle line, is there more transition to a P.L. from a P. Tech.?
- What does 'routine' mean?
- I think 'routine' means where everything is clearly within the rules, rests within the rules. 'Complexity' is beyond the rules, outside.



Do you feel APEGA's approach facilitates career paths for technologists?

- The path exists for C.E.T.s who want to further advance their careers.
- It is concerning that under this proposal P. Tech.s would have an expanded scope of practice with less education and experience, and could do the same work as P.L.s.
- This is diluting the whole process can see what they are asking for, but not really sure why they feel that it is not necessary to have the education and experience to make those decisions.
- It is quite clear that the career paths we have, the status quo, offers an appropriate career path for technologists.
- I am a Professional Licensee and I fully support APEGA's position on this.
- Maybe their career path could include going to school again, and becoming full APEGA members if that is what they want.
- C. Tech.s under ASET would become P. Tech.s and then P. Tech.s with APEGA can become P.L.s. In other provinces, do C. Tech.s become directly P.L.s?
- P. Tech.s don't exist in other provinces.
- Absolutely, it does. Working through the P.L.L route offers an excellent chance for those who are skilled, experienced and have the desire to do that
- There is no clear path, no defined course for technologists at this time; it is changing and quite confusing. Technologists are in 'limbo' at the moment.
- Is it APEGA's place to provide all these education paths? If a technologist wants to become an engineer they can go back to school and get an engineering degree within two, maybe three, years.
- APEGA and ASET were more consolidated as professional organizations a few years ago until work started to devolve some of this to ASET and go jointly. And now it's changing because ASET wants to take on some engineering.
- The P. Tech. practice is more granular than engineering practice so it's important to maintain a distinction.
- What is the origin for all of this? Surprised that two professional organizations cannot reach an agreement. Is it because technologists feel they are taking over the field of engineering and geoscience and they need to move up and get a career? The logical move would be to apply to be an APEGA member. Or is this fighting for membership?

Do you feel APEGA's approach facilitates career paths for technologists?

- It's not clear who should apply to which organization, APEGA or ASET. When I came to Canada I applied to ASET and APEGA. ASET said "you are an engineer we don't want you here". I went to APEGA and wrote an exam to become an engineer in Alberta. Technologists should apply for the P.L. designation with APEGA if they want to move up.
- Can the expanded work by P. Tech.s work jointly with APEGA? Did ASET ask for that?
- Would APEGA be receptive to the expanded scope?
- APEGA is the oldest organization. Would the government designate APEGA to voluntarily ensure the control of engineering practice because ASET came after?
- It did not work 20 years ago when APEGA wanted to take in ASET as part of their organization.
- How does the P. Tech. to P.L. experience portion work? Is a P. Tech. granted the ability to work on the complex limited scope under the supervision of a P. Eng. to gain that experience?
- If a person wants a P. Tech. designation they apply to the joint board and if a person wants a P.L. designation they apply just to APEGA. Does the board independently review the applications? Can the board say that a P.L. applicant is better suited for a P. Tech. designation or, vice versa, can the board say/suggest that a P. Tech. applicant is better qualified for the P.L. designation? Can a P.L. applicant get rejected by the board?
- Is APEGA requiring six years of experience for the P.L. designation?
- Currently you don't need to be a P. Tech. to apply for a P.L. designation. Is this correct?
- Some APEGA members have both P. Tech. and P.L. designations. I am aware of others applying for the P.L. level without the P. Tech. designation.
- Would employing C.E.T.s who cannot authenticate put people and companies at a higher liability risk?
- Is granting the C.E.T.s the ability to operate under their own scope of practice the real sticking point or is it also the expanding role of the P. Tech.?
- What is the difference between the P. Tech. and P.L.? Is it just the two years of education?
- Does the APEGA proposal bring Alberta more in line with other jurisdictions across Canada?

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Do you feel APEGA's approach facilitates career paths for technologists?

- In the current framework across Canada a technologist can become an engineer and have their technologist background recognized as part of the process. There is a program at Lakehead University where a technologist can upgrade to become a professional engineer.
- P. Tech. programs make sense for technologists who want to increase their scopes.
- At this time, can a C.E.T. go directly to a P.L. or P. Eng.?
- The direction APEGA is going to agree with is first the C.E.T. has to become a P. Tech. and then they can apply to become a P.L. or P. Eng.;
- If you want to become an engineer get the engineering education. We need to value our profession and raise the bar.
- Is APEGA trying to appease ASET regarding the education pathway for C.E.T.s to P. Tech. to P.L. or P. Eng.?
- There seems to be a path, but how well does it work in practice? How efficient will it be? It can be very restrictive in practice.
- Why does ASET think that it does not provide a career path for technologists?
- Who is responsible for renewing the general regulations that expire in 2021? It's the government's regulation, is it not?
- Comparing engineers and technologists – the career pathway is much more limited for engineering technologists based on scope of practice.
- Technologists may not have the ability to grasp and solve complex problems and situations based on their education and experience. The education for engineers is far different than technologists.
- Technologists working independently might pose a risk.
- Can a P.L. become a P. Eng.?



Do you feel APEGA's proposals are consistent with APEGA's legislated responsibility to ensure Albertans can be certain and confident that there is sound oversight of engineering and geoscience in Alberta?

- An APEGA member commented that they [this group of APEGA members] want ASET members to be aware of what ASET is proposing because they are not getting the sense that ASET is conducting the same type of consultation with their own members about whether this is something ASET members want. They encourage ASET members to be engaged in this part of the conversation and perhaps bring this feedback/information back to their membership and association. They welcomed all ASET members around the table. Of the three proposed changes, the one that causes the greatest difficulty is the introduction of the independent scope of practice for C.E.T.s. The first two proposed changes are less disruptive, but they still undermine the established structure. But, the third one poses the most significant risk. I agree with APEGA's position.
- There is potential for putting engineers' education and work in jeopardy. Engineers have invested in four years of education. C.E.T.s have only two years of education.
- Who will take care of the discipline for C.E.T.s?
- What do we do in the future? What can APEGA members do to influence a government's decision in the future?
- Yes, ensuring public safety is exactly what we need to do above all else.
- If a P. Tech. or P.L. moves from one company to another they maintain their P. Tech. or P.L. designation even though in the new company their scope of work may not reside in their predefined limited scope of practice. How does that impact those definitions?
- How is a difference in scope moving from job to job for a P. Tech. or P.L. different from that of a P. Eng. going from one type of engineering to another type of engineering within another company's scope, for example, an electrical engineer going to another company to do chemical engineering? Should those two problems of scope be treated in the same manner?
- So, it is difficult for P.L.s and P. Tech.s that have a limited scope and work within those accepted codes and standards to transition from one occupation/job to another.

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Do you feel APEGA's proposals are consistent with APEGA's legislated responsibility to ensure Albertans can be certain and confident that there is sound oversight of engineering and geoscience in Alberta?

- What steps does a C.E.T. with 10 years of experience need to take to become a P.L. before there are changes to the regulations?
- If you are a P.L. now you will remain a P.L. for the future.
- What is the difference between a P.L. and a P.L.L.?
- The requirements for the P.L.L designation are higher.
- Based on the SME's response, the comments centred on education versus work experience. Someone with lesser education but with many years of experience could be as competent as someone with a Masters in Engineering.
- Two education systems – university degree program and certification/ diploma programs at technology institutes – both with different expectations and standards. If the regulation of those standards also becomes separate in that there's two separate bodies, APEGA and ASET, monitoring their own tiers independently and acknowledging that there is a difference in education in terms of broadness in scope of the two different programs, wouldn't that create a type of 'brain drain' in Alberta if it's more attractive in terms of finances and time investment to invest in the shorter education program and come out at the same level?
- The challenge is to self-assess to ensure you have the right knowledge to self-govern your defined scope of practice.
- APEGA is framing their proposals/responses around what is in the best interest of the public



What else should APEGA consider regarding these matters?

- Communicate with other professional engineering associations across Canada to get their perspective and how they feel about this type of proposal. Documented support from other associations will strengthen APEGA's position.
- Looking at the two proposals from the AB government's position, one proposal is status quo and the other is different, why would the government be motivated to change if at all? There has to be a reason for the change.
- Who at the AB government level will evaluate the proposals?
- Will someone from the public evaluate the proposals or will there be an outside 3rd party independent review process?
- Do the proposals need to be approved by the legislature? This could be another place for APEGA and ASET members to provide more input if necessary.
- If the proposal goes through, ASET and APEGA will be independent self-regulators with overlapping scopes of practice. Is there a process for a member of APEGA to make a complaint about a member of ASET (and vice versa) regarding concerns related to professional practice?
- What is the dispute resolution process if there are diverging viewpoints? There cannot be a double standard.
- Can APEGA draw parallels from other professions in Alberta?
- Can pharmacists prescribe?
- Is there some way to "dummy it down" so that those who are not in our business can understand the complexities of our work and to ensure government and the public appreciates and understands what is happening?
- Take the bell curve out of the presentation as it was not explained in the presentation.
- Could this lead towards having a national accreditation technical examination?
- Are you engaged in any discussions about having a technical examination for any type of professional engineer?
- Would ASET members who want a P.L. designation have to take the exam?
- What are the next steps?

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What else should APEGA consider regarding these matters?

- A P.L. can become the equivalent of a P. Eng. in terms of scope of practice and ASET wants to have P. Tech.s equal to P.L.s. Does that mean that someone who is a P. Tech can have the full practice of an engineer without the education?
- This would be a back door to becoming a P. Eng. based on experience without completing the required education.
- If the government accepts ASET's proposal what would be APEGA's position then?
- Sounds like a P. Tech can operate independently without supervision. Are they under any requirements and is ASET proposing that should C.E.T.s also be able to operate independently to have management plans, responsible members, all things that come along with practicing engineering?
- Who consists of the council members and have they released any public statements or reports on this matter?
- Which government ministry is responsible?
- What is the path to become a P. Eng. or P.L. post Bachelor of Petroleum Engineering, an applied degree from SAIT?
- What is the opportunity for APEGA to go into high schools to help students understand the different education pathways to engineering? These pathways are complex and students need the information when they are making decisions about their post-secondary education.
- It is critical to know ASET's justification for their proposal to government and their reactions and comments to APEGA's proposal. This information should be available for members.
- Should ASET take on more responsibilities they will need to pay more attention to their variations of designations and protected titles to protect the public?
- Tinkering with the definitions will play havoc in the workplace. Traditionally engineers are not part of a union and technicians are. This may cause problems if engineers and technicians are doing the same work, but they do not share some of the advantages provided by a union.
- Why isn't ASET trying to validate technologists' education?
- What problem is ASET trying to solve and how are they selling that to government? Until APEGA knows this, APEGA's strategy may not be the right one. It's appropriate given the information provided today because it is consistent with the Act and APEGA's mandate. ASET may be bringing something forward that gains traction with the government. APEGA may have to be more creative, step ahead and break ground in a different place.

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What else should APEGA consider regarding these matters?

- Will we get the ASET proposal documents for our review?
- There is miscommunication about what the description of the ‘occupation of engineering and geoscientist technology’ means and what it includes. Does the description include legislated scope of practice with independent ability to perform tasks without sign off or authentication, or is it purely a description like a job description? Concern expressed that there is miscommunication between the higher levels of ASET and APEGA.
- ASET’s proposal is not coming from the grass roots level. Engineers and technologists work closely together and work well as a team. Engineers rely heavily on technologists’ work and authenticate their work as members of the team.
- ASET’s position is that technologists will independently produce work that has not been stamped and sealed by an engineer.
- Will we need to make changes to other legislation, standards, and codes that require authentication of work to allow C.E.T.s to carry their own practice or are they still going to need to get that certain level of authentication? This is creating an interesting potential turn. The question is, will the government see it that way?
- Looking at the changes to the Act that ASET is proposing: 1) ASET could set things up to oversee/regulate their own members without joint boards. 2) ASET could manage defined scopes of practice for their members including P. Tech.s. 3) How does an independent scope of practice for C.E.T.s who don’t have to authenticate work fit in the engineering and geoscience professions overall under the umbrella Act and how would you make that parallel with other professional umbrella type Acts, such as the medical profession?
- What would the professional role look like if C.E.T.s had their own scope of practice and were not authenticating? Where would that fit into the work we do? What role would they have that didn’t roll back to professional authentication to manage other legislation or corporate standards to meet building codes or other regulations?
- How is the public going to know the difference? Very confusing for the public.
- Confusing for employers. Who do they hire? How will they know the defined scopes of practice?
- Is this opening up the door for C.E.T.s to own and operate businesses indicating that they are qualified to do specific work? For example, checking wooden foundations. The C.E.T. does not need to authenticate anything, they would check the foundation and provide the home owner with a document indicating that the foundation is safe. However, the foundation collapses. What avenues does the homeowner have to file a complaint against the C.E.T.?

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What else should APEGA consider regarding these matters?

- Why aren't all C.E.T.s registered and regulated?
- The homeowner can go through civil court for recourse against the C.E.T. However, these types of scenarios of poor work practices will not be viewed favourably in the eyes of the public, other professions or government. APEGA will lose credibility and there is the potential for the loss of the ability to self-regulate.
- Government needs to see and understand the risk to the public.
- Public safety concerns – I'm seeing things right now that are not legislated well through ASET. If ASET wants looser restrictions there will be more risk to the public. For example, if a person lies about being a C.E.T., ASET does not have the 'teeth' to do anything about it, whereas APEGA has the authority under legislation to act. ASET would need to govern better.
- Impact to public safety is paramount. APEGA should not negotiate regarding the designations.
- What do the universities think about this?
- It seems that APEGA's responses to ASET's proposals are reasonable and well thought out. It does seem there is an impasse.
- Regarding the impasse, what are we supposed to do? What happens next? It sounds like APEGA and ASET have to sit down, hash this out, and negotiate.
- When you talked about how some things might have to be competency-based, does this mean that technologists and engineers coming to AB from other provinces/countries will need to write a fairly involved exam in order to practice in AB?
- If two regulators are ultimately in place, how does this affect the Permit to Practice? Would an employer with both P. Eng. and P. Tech. employees be required to maintain two distinct permits?
- You have put together an excellent presentation. It conveyed a significant amount of information with a great deal of clarity.
- This is very concerning. You have my support to help as required.
- The public has a lack of understanding in general about the engineering profession. Is APEGA going to communicate to the public about what is engineering and the value of the engineering profession to the public?
- Is the P.L. designation education requirement a two diploma and six years of experience? It seems there is substantial risk to that if a person is starting from scratch all over again he/she can go to school for two years and work for six and then sign and stamp drawings, versus going to school for 4 years

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What else should APEGA consider regarding these matters?

with financial implications and working for four years to be at the same level. I acknowledge there are differences in the breadth and depth of the P. Eng. scope of practice and the P.L. scope of practice.

- Would this disagreement between APEGA and ASET put self-regulation for our profession in jeopardy in Alberta?
- If ASET is successful, is APEGA willing to defend their position to the 'death'?
- What happens if ASET is ultimately successful, would APEGA take it to any next steps, if there are any next steps?
- If it becomes a political issue and this is as important as it is made out to be, where is our representation, where are our high-powered lawyers, and where's the lobbyist?
- How many members does ASET have?
- Don't understand why there has to be a joint regulation between APEGA and ASET. Why can't there be simplification to just have a P. Tech. and a P. Eng.. The P. Eng. would oversee the P. Tech.. The P.L. designation could be eliminated.
- Are P. Eng.s required in the approval process? For example, prepared references for C.E.T.s to move up to P. Tech.s and for P. Tech.s to move up to P.L.s.
- If the status quo remains unchanged and the joint boards continue the current setup, could we live with what we have? Or is there something else that is a concerning problem?
- Is it fair to say that whatever changes we want to make are not as significant as these three proposals progressing? Are we better off leaving things the way they are than trying to change it?
- Was there any happy medium reached between ASET and APEGA before it came to this point? I support APEGA not agreeing with the changes to the C.E.T.. Maybe the P. Tech. should stick to the core requirement and simple problem-solving. But the P.L. could be jointly regulated and could be covered by APEGA's practice permit.
- Concern that government will support two regulating bodies if APEGA and ASET cannot reach a middle ground.
- If the P. Tech. scope of practice is expanded how will the public differentiate between the P. Eng. and the P. Tech.? How will we [engineers] protect the public, ourselves and our interests? Increasing the P. Tech. scope of practice is entering a grey area – what separates a P. Eng. from a P. Tech.? Designs produced and stamped by P. Tech.s are not as good as P. Eng. designs. A failure

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What else should APEGA consider regarding these matters?

due to the P. Tech.'s design could jeopardize public safety and look bad on engineers. We need to protect our businesses – P. Tech. fees will cut into P. Eng. fees.

- If the government accepts ASET's proposals, how does that change the legislation for APEGA, what does that change for APEGA?
- What have we done to help the public understand the role of engineers and geoscientists? What have we done to educate elected officials and government?
- APEGA could give us ideas and the tools to help us educate others about our roles. As professionals, we have a role to educate the public, starting with our own families, about what we do because the risk is high to the public.
- Do we want to involve public members in these discussions?
- Employers need to be educated as well as the general public. Some employers have difficulty differentiating the C.E.T., P. Tech., P.L. and P. Eng. roles. It is very difficult to fully understand the different and complex classes of professionals in the industry.
- How is it fair to the person who obtains a four-year degree from university and completes a four-year apprenticeship to become an engineer, when another person can get a two-year degree from a college, work for two years to get their stamp, and then practice as an engineer? We are creating a short cut to skip the process.
- Do you think there is a way of coming together to resolve some of these issues without leaving it to government?
- Are there any technical exam requirements for P. Tech.s and P.L.s?
- Is there any dialogue with other provinces? Can we learn from other provinces?
- Why is there a P. Tech.? The overlap in scope of practice between a P. Tech. and P.L. is so close, except for the education.
- What are the next steps?
- The practice of a limited scope between P. Tech.s and P.L.s is already complicated, as each individual may have a different limited scope and it is difficult for someone outside of APEGA to understand what that limited practice scope is. Unless you have a P. Eng. or geologist overseeing that process, it is very difficult for others outside of APEGA to understand if someone is practicing outside their limited scope.
- Does the large number of petroleum related technologists, engineers and geoscientists in Alberta contribute to this position/issue? Technologists working in these areas feel they are doing very similar work as the engineers in the oil companies.

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What else should APEGA consider regarding these matters?

- APEGA may need to educate our own membership as to what the professions actually do, which will promote understanding of the relationships between the geophysicists world and the engineering world. If we understand this better and the roles each of us plays and what could come down our individual pipes, we may be better equipped to understand and counter anything that another association, locally or nationally, presents to us. For us to have understanding and the ear of the government and cabinet going forward, we need to understand what the scope of the professions really is, what the laws really are when you get into a courtroom, and what the real liabilities are on a personal and corporate level. In order for us to govern ourselves we need understanding between each other. We need to address stereotypes and assumptions before we can, as a collective association, earn the ear of government and other jurisdictions and have a case for either association with ASET or not. We need to emphasize the profundity of the regulations and the associated acts and regulations that touch us all in these ways and how that roles out in the real world for individuals and companies.
- Are the diagrams in the video available? They are very useful.
- ASET has never had its own legislation; they desperately want legislation.
- ASET has a lot of technologists. There are 20 or 30 different classes of membership and the only one that makes any sense is a P. Tech., everything else really does not matter. APEGA should take the lead and bring all these technologists into the APEGA fold, bring them under the APEGA umbrella either as a C.E.T. or CGT. APEGA could organize the whole practice of technology because there is always going to be technologists, probably as many or more than professionals. If technologists were under the APEGA umbrella, APEGA could basically dictate the way industry is organized – a P. Eng. at the top who would supervise the work of the technologist below them. There are many C.E.T.s, but no CGTs. Many of these technologists would fit under a CGT designation.
- One of the themes that has come through and expressed in different ways today is that APEGA needs to be far more assertive and proactive. The technology association for years has been pushing and APEGA has reacted. Strategically, APEGA should not apologize for the fact that people with four years of education is a better situation than those with two years.
- I've seen a lot of sets of plans stamped by both P.L. Eng.s as well as P. Eng.s. and there's usually a grey area as to when a P.L. Eng. is developing a set of plans where does the line stop and how do you define what their limited scope is within existing practices? Your chart showed a narrow strip down the middle to reflect that. I feel you could do a little bit more to explain and add clarity because when I spoke to my cohorts the younger ones tended to get a little bit confused as to P.L. versus P. Eng. and what the actual intent

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What else should APEGA consider regarding these matters?

of this legislation is. Most of my point is that there is a grey area and that belongs under APEGA's rule to define where the line stops and what the P.L. Eng. or P.L. can stamp and that has disciplinary issues and public safety concerns.

- Have we seen ASET's response to APEGA's proposals? What is it that they are presenting to government? I've seen what they want, but nothing on their justification. I would like to understand what they are saying so we can better counter it.
- What is the public's understanding if something like this was to go forward with ASET's proposal? The response APEGA needs to consider adding to any of their discussions is how much additional confusion does this make for the public? The public is confused as it is. If they are hiring a professional to do a piece of work, what is that professional able to do and what is that person qualified to do? If we muddy the waters between a P. Eng., P. Geo. and a C.E.T. or P. Tech., or whatever the designation is, it becomes very unclear. I don't think the public understands at all what the difference is. So, if we start saying there is even more confusion then this will spread like wildfire and the public would lose confidence in us as a professional association, and that puts us in jeopardy. It adds to the risk.
- Agree with the previous comments. Engineers are a well-respected group with a very low profile in the public mind. People will not bother or look to understand these nuances of the regulation. The current One Act, Two Associations model, has been in place for five to six years. It works well and does give techs a path forward. I've seen it in my workplace and it's well done and appropriate, and protection of the public is maintained. All the education programs in the world won't get to the average citizen, so there will be much confusion. It's a really slippery slope.
- Have you consulted with other regulators like the Alberta Securities Commission? The Commission relies on APEGA for certifying qualified reserves evaluators, which includes P. Tech.s. I don't know what they would do if they were under ASET.
- We have a P. Tech. in our company who is a qualified reserves evaluator. She meets all the criteria set out by the Canadian oil and gas evaluation handbook, which recognizes APEGA, but it does not recognize ASET. If this legislation goes through and they are separate professional designations, is this something that is being considered?
- The securities commission, whether it is the Alberta Securities Commission or the Federal Securities Commission, when it comes to reserves / resources definitions whether it is oil and gas (51-101) or minerals (43-101) there will be just more and more confusion as to who is qualified to do that. There are people, such as the P. Tech.s working

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What else should APEGA consider regarding these matters?

in your company, who are considered to have the knowledge, background and experience and this is where we have an extremely grey area. This is an opportunity for someone who is a P. Tech. working in those areas to apply to the P.L. route where they could now be recognized by the securities commission. That might be an avenue of career progression to suggest to that individual. At this point in time the process that's being proposed by ASET just adds to the confusion around that. This is a really great example because it is very real and present, and we have similar examples in many engineering businesses throughout Alberta. We have a huge number of engineering technologists working in rural areas for small municipalities. Often these technologists are considered the go-to-person for engineering, but they may not be a qualified person who can actually sign off on things. This is where we end up with a huge amount of confusion in rural areas versus in urban areas. In Edmonton and Calgary, we are reasonably clear because of large employers and businesses. But it is not so in rural areas. Sometimes smaller municipalities think that the technologist who is helping them with engineering style problems is the engineer. This is not because the technologists are misrepresenting themselves, it's more a history of not having a large number of professional engineers working in those regions.

- In the lobbying ASET did in the 2000's, which culminated in the changes to the legislation in 2009, they extensively lobbied rural municipalities and townships and their position wasn't around public safety, it was more about getting the work done now at a cheaper cost if these people could stamp. Now as it is they can do the work for you, but then it needs to be sent to the engineering company to be reviewed and stamped, costing you extra money. So, their strategy was to aggressively lobby the government through the rural areas. It was not about public safety, it was about saving money.
- Do we have any sense of where the government is on this?
- Has this been discussed with the other associations across the country? There are many of us registered in more than one province. This could cause all kinds of problems with corporations that are operating in two places and the P. Tech.s in the area thinking that they can sign documentation that's going to another province because they are within an approved corporation.
- Are you saying that in other provinces a C.E.T. is under a separate legislative line from the government?
- Interoperability between provinces – I have a colleague who just got licensed as a P. Tech. in Alberta. His intention is to go to British Columbia receive a P. Tech. and then come back and convert that to P.L. with APEGA. It's a bit of a work around and it could further make this more difficult and further exacerbate that issue as well.
- That's fair that APEGA does not recognize a P. Tech. from British Columbia. I know of two instances where this was successful.

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What else should APEGA consider regarding these matters?

- Where do the EITs fit in this picture? Are they equivalent to C.E.T.s, but with a broader scope of practice?
- Clarification of the scope of practice for EITs.
- Is it clear where we have those who are educated outside of Canada? There was an argument to ASET that some of those trained outside of Canada trying to come in to the profession would be a good 'magnetism'. *The SME stated that this statement by ASET is incorrect and they are working with ASET to correct this.*
- Many organizations call internationally educated individuals who are in the application process 'technologists' – they are either a technologist or they will classify as an EIT. This may be language APEGA should consider for clarification in terms of how to manage that within the legislative process.
- It would be beneficial to have the graphics from this presentation prominently posted on both APEGA and ASET websites. Before this I didn't understand the difference between a P. Tech. and a P.L. The graphs clearly describe and differentiate all of the scopes of practice. This would be helpful to members of the profession and the public.
- Is it one scope of practice for each of the professions or is an individual given a specific scope of practice? Where is an individual's scope posted? What about the C.E.T.s?
- We understand that all health-related professions are individually regulated under one Act. What's our reaction/comment on that when you have a limited scope that the public can identify? What's APEGA's response to ASET saying no you can't do this?
- Where can we find ASET's and APEGA's submissions to government?
- I now better understand the ASET position.
- Would like to see greater collaboration in jointly regulating engineering technology.
- Since you said we are at a standstill until 2019 what plans are in place to keep this at the fore front?
- I heard that APEGA is not fully aware of ASET'S concerns. More needs to be done to explore ASET's concerns.
- Do you have a link for the survey?
- Considerations for increased focus/action: Making sure to "work the halls of influence" behind the scenes. (Both with current government and with any/all potential future governments -- aka UCP.) Confirm their key



What else should APEGA consider regarding these matters?

interests/ideological influences and tailor responses/communications on this matter accordingly. Have to “speak their language” and the decision makers have different perceptions on such issues.

- Excellent presentation/well done.
- Thank you.
- Why would ASET like to dismantle the joint P. Tech. board?
- One of the issues is mobility and consistency throughout the provinces. Has Engineers Canada weighed in on this issue considering they are trying to equalize to our designation?
- What is the timing for the decision on the changes to the legislation?
- When did ASET make public their decision to separate from APEGA oversight?
- I understood the limited scope, but do we have a guideline on what sort of documents P. Tech.s and P.L.s can currently authenticate and stamp?
- What is the industry perspective on this change?
- How do the engineering procurement and construction firms feel about this proposal?
- Do C.E.T.s have an independent scope of practice anywhere else?
- I think we are sending a message to other provinces that we are lowering the bar for our engineering.
- Do the other provinces have two separate bodies to regulate engineers and technologists, or one?
- If we are looking for consistency and protecting the public from the practice of [*P. Tech.s*] then one regulator is what we should have as well. Perhaps one engineer regulator who regulates everything.
- There’s a lot of work being done between provinces
- If necessary, when the proposed changes come out that there be full consultation with the public. I think that this may be where traditionally the stronger support has lain with the regulator approach of both. There was some mention about the similarities between health professionals and a couple of other different professional organizations and there are separation and regulation based on experience at different levels. As is pointed out, right now we are fully aligned with the rest of Canada, not necessarily meaning that we should consider it, but I think the approach also better be aligned with other organizations in Canada, or risk complete breakdown of transferability to other organizations. I’ve moved to three

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What else should APEGA consider regarding these matters?

different provinces and know some of the different things that were important to different organizations along the way, but the main tenants have been the same. If you start breaking off and have individual stuff in each province then the movement of labour becomes much more difficult.

- Is it correct to summarize this topic as the following: APEGA believes that ASET should operate within the current engineering act and APEGA continue to act as regulator for engineers and technicians?
- We should consult with the employers of engineers and technologists including the Consulting Engineers of Alberta because aspects of this proposal could impact employers.
- I know ASET's statement is about independence. I wonder if it's just an easy way; they really can't put their reason as dollar based or value based, but it's my understanding they have 800 P. Tech.s who pay ASET dues. The way they can get and increase scope today is by becoming a P.L. I understand that means they may just pay APEGA dues and no ASET dues. So, is there room there to negotiate value that way? Would that help them? I suspect they are worried about 800 paying members shifting to APEGA.
- Please refresh my memory on what the steps are, and timeline is, for the government to make a final decision.
- This government is highly backed up as far as legislation is concerned. Consequential amendments to Federal regulations are not getting through Council at this point. That's just making sure Alberta agrees with the Federal regulations on a number of topics.
- How many members does ASET have?
- There is a pathway to full licensure to become a P. Eng.; there's always a choice to go back to school.
- ASET is a structured organization with self-regulation, I think we are very much at risk. How will we maintain self-regulation? How are we going to serve the public interest? We should go back to 2009 and say we are really not serving the public interest here. Let's go back to the table and revisit how we can best serve the public going forward?
- Are the steps from a P. Tech. to a P.L. very similar as the steps to become a P. Eng.?
- Can the public view the video? The video is quite informative and factual in the narratives in terms of we don't want this.
- Have you had any feedback from ASET regarding the video?
- I would like to see what questions ASET members have after viewing the video.

2.0 Email Comments Submitted Directly to APEGA



Email Comments Submitted Directly to APEGA

- The APEGA stance is generally solid and I support it
- The statement that granting C.E.T.'s authority in Alberta will cause mobility issues is not a valid argument in my opinion. We should be concerned about the public safety in Alberta and not about ASET mobility issues (at all).
- I am concerned with the idea of working within codes, standards, and accepted practices. That's not only for C.E.T.'s, but for a P.Tech. designation as well. There is enough uncertainty within codes, standards and especially "accepted practices" that it is sometimes very difficult to determine if they are being applied correctly, even requiring the application of first principles to determine that. This is something that a C.E.T. cannot do properly with their limited experience. The greater experience of a P. Tech. is a buffer to this.
- It is worrying that a C.E.T., with 2 years technology training and 2 years experience could be making public safety judgements! This means that someone as young as 21 could be making decisions affecting public safety. They just aren't mature enough. Both Engineers/Geos and P.L.'s need a total of 8 years which would make them at least 25 years old.
- I attended yesterday's Webinar and thought that I would pass on my comments / suggestions, first off, the Webinar was very informative and well done. From attending the Webinar, my understanding is that APEGA and ASET have come to an **impasse** with respect to the following proposed changes to the "Engineering and Geoscience Professions Act (EGP Act)". ASET has proposed that:
 - 1) *engineering and geoscience Certified Engineering Technologists (C.E.T.s) should have their **own scope of practice without oversight***
 - *C.E.T'S could have their own scope of practice but it mandatory they have oversight and governance.*
 - 2) *the scope of practice for Professional Technologists (P. Tech.s) be **expanded** to allow P. Tech.s to **practice outside routine codes and standards,***
 - *This needs to be reviewed again in discussion with ASET, I am unclear in what ASET is looking for, are they looking at P. Tech's becoming P.L.'s or something else? I am assuming that ASET is of the opinion, that not all 'engineering' is restricted as 'professional engineering' and that in these unrestricted areas ASET members are permitted in common law to practice independently.*



Email Comments Submitted Directly to APEGA

- 3) *the existing APEGA-ASET joint boards and committees that regulate P. Tech's be eliminated and that P. Tech's be regulated only by ASET*
- *All Professionals (Engineering & Geoscience) including P. Tech's need to be regulated as per the EGP act.*

Comments

1. I would like to see comments / rationale from ASET on their proposed modifications.
2. I have talked to a few of my neighbors (Non APEGA and Non ASET) and the consensus was that there should only be one (1) association that regulates the practices of engineering and geoscience in Alberta on behalf of the Government of Alberta, they find it puzzling on why there is two (2).

Suggestions:

1. Get back to the negotiation table with an outside mediator, since if it is left up to the Government of Alberta, the outcome could be undesirable by both APEGA and ASET.
 2. APEGA-ASET joint boards and committees should have two (2) public members
 3. Think Outside the Box, What else can be done.
- I have recently attended the consultation sessions related to ASET's Scope of Practice Proposals and also have completed the survey on the website. I am a P. Eng. registered with APEGA since 1987 and also am a Responsible Member under Permit P13425. A couple of other items have come to mind subsequent to the sessions.
 1. The Government of Alberta has recently decided that Professional Engineers are to remain exempt from collective bargaining as part of their review of the provincial labour legislation. This exemption does not hold for ASET members including C.E.T.s and P. Tech.s and therefore the overall responsibility for the safety and public interest must reside exclusively with APEGA
 2. Do other provinces in Canada maintain multiple separate bodies for engineers and technologists or are they under a unified body? Is there a potential for the amalgamation of engineering and geoscience technologists into APEGA and have a defined scope for their key role in a holistic manner with P. Eng./P.L./ P. Techs.?
 - I was fairly vocal at this morning's info session. I thought the session was quite well organized but I certainly do not agree with the content. It seemed that the consensus going forward is for APEGA to take an "aggressive approach" with ASET and in my opinion that will likely be about as successful now as it has been over the last 15 or 20 years. ASET desperately wants their own legislation, completely independent of APEGA.



Email Comments Submitted Directly to APEGA

That was the point I was trying to make. I am aware that they have some legislation now, but they see themselves as the voice of technologists and they want to become an independent body, much like APEGA, representing the interests of technologists. As far as I am aware, their membership numbers would make them the second largest “professional” society after APEGA. They have a huge number of members in a myriad of different membership classifications, which apart from P. Tech. mean very little. The C.E.T. and C. Tech. designations really don’t mean much outside of ASET. The problem with ASET is that it is trying to represent all the technologists in Alberta, in whatever field. When you try to represent everyone, you end up not doing a very good job of it. That said, I would like to see APEGA model its act on the Agrology Act and just come up with a separate section for technologists, C.E.T. for engineering techs and CGT for geoscience techs. This is not to be perceived as a “watering down” of the profession. This is providing a legislative home for techs, with a code of ethics, disciplinary procedures, CPD requirements, etc. The difference between a professional member and a tech is that a tech has a limited scope of practice that must be verified. AIA established an audit procedure for professional members. I don’t know if APEGA has such an audit, but if not, it may be something to think about. Going through an audit every so often is one very positive way to reassure the public that professional members are not misrepresenting themselves. Those are some of my thoughts. I’m not a very good typist. I do much better in direct conversation, so at some point I would welcome an opportunity to discuss this with you or at one of the legislative committees. I did attend a couple of those reviews last year, but then I got busy and did not follow up on it. I can see now that perhaps I should have gotten more involved. I think APEGA is being presented with a huge opportunity to gather the techs into the APEGA fold. ASET is essentially irrelevant. I know I am using the word opportunity a lot. That reflects my small business mentality. In business there is no such thing as a waste of time; there are only missed opportunities.

- I do not believe the argument that the applications have a university degree of 4 years is not a strong argument compared to a college or polytechnique two year program. I believe that argument by itself is easily discredited. “What does it matter what school you go to or how long you are in, ASET has set criteria of what skills we expect applicants to have has APEGA?” I believe the stronger argument is to focus on academic skills that the applicants are taught during that time. For example: (I am not sure if this is true)...one of the learning outcomes set out by Canadian Engineering Accreditation Board is the
 - Being able to have skills to be able to Identify; *Attempt to resolve;* & *Communicate about complex problems*



Email Comments Submitted Directly to APEGA

- I attended the October 23 session in Calgary pertaining to ASET's scope of practice proposals. I agree with the general sentiment that APEGA must be more assertive in establishing that public safety is not served by lowering those standards which govern processes of creation whose end results pose, potentially, catastrophic risks for the public. The governing ethic of protecting the public has already been eroded by the currently acceptable practice by which APEGA permits "foreign-trained professionals" incapable of APEGA registration (off the books, as it were) to practice engineering so long as their work is reviewed by a registered engineer; enabling an even larger body of less knowledgeable, less skilled, less circumspect practitioners to stake a claim to engineering with their own scope of practice would simply be negligent.
- APEGA gave ASET an inch with the P.Tech designation -- ASET now seeks a mile. In my opinion, APEGA should take the offensive and actually reduce their integration with ASET and abandon the P.Tech. designation; if work requires an engineer-like level of skill and care then that work should be done by an engineer, whatever the cost. APEGA is not an almshouse, and there should be no considerations of economics, or accommodating those currently not deemed worthy of registration, when the ultimate issue is public safety.
- What would the Association's plan be if ASET were to gain any or all of their demands? Would the P.L program cease to exist, as Technologists would be independently regulated? Technologists would no longer be able to hold the title of Engineer as they would not have a P.L. designation and no longer be regulated by APEGA?
- What would the Association's plan be if ASET were to gain any or all of their demands? Would the P.L program cease to exist, as Technologists would be independently regulated? Technologists would no longer be able to hold the title of Engineer as they would not have a P.L. designation and no longer be regulated by APEGA?
- It was with great amusement that I watched the youtube video. After watching the youtube video it became obvious that APEGA's argument is essentially, "Hey! we are engineers, we have taken at least 4 years of post secondary schooling + 4 years of work experience as opposed to 2 years of schooling and 2 - 4 years work experience for the technologists. Because of that, we (meaning the engineers) are SO much SMARTER and more well informed than the technologists and these upstart technologists can not be trusted to regulate ourselves. If that isn't an elitist attitude, then I don't know what is? It reeks of arrogance on the part of APEGA. I have worked with many technologists and except for the additional schooling mentioned, there is not a huge difference between them after being out in the workforce for a number of years. I say to let the technologists have their chance to regulate themselves. (But do keep a close watch on their progress)



Email Comments Submitted Directly to APEGA

- APEGA is obviously not happy with ASET's position. Why not just ignore them and set up a pathway for technologists with a two or three year diploma. Create two classes, CET and CGT for engineering and geoscience technologists. These techs can have a restricted scope.
- I watched the summary video online and am not clear on what is the motivation for ASET to propose these changes? Do their proposed changes endeavor to improve public safety or the engineering profession? Is there something more to this or does it just boil down to a case of self-entitlement and wanting to be independent? I'm also wondering if any action from APEGA members or businesses with a permit to practice is required for the proposed legislation changes?
- As previously discussed and in my survey response The graph being presented by APEGA misinterprets the Scope of Practice of a P.Eng./ P.L.Eng./ P.Tech. To validate this opinion I have reviewed the APEGA graph with a number of Senior P.Eng's. They have a similar opinion. One simple example of this misinterpretation is engineering activities having **minimal depth and breadth**. The APEGA graph interprets that these activities can only be performed by a P.Eng. This of course is not the case at all. Again this is only one example. It would appear that not much thought went into the preparation of the APEGA graph nor was input obtained from ASET to complete it's preparation.
- We already cannot compete against PLC programmers who do not authenticate their work. We already cannot compete against electrical wholesalers who do free Arc Flash studies. And do not authenticate their work. Both of those things are clearly the practice of engineering, but APEGA turns a blind eye. I would like a response to those two issues.
- The stated proposals are unacceptable. With the increased emphasis on enforcement (rightly so) and technical competence (also rightly so) in the profession and for Permit Holders, these proposals will take the professions further in the direction where fundamental education is not valued or rewarded.
- This is not as safe, nor is it in keeping with the recent push to step up the rigidity of self-management of the profession by APEGA. If permitted, you are basically opening up the practice of engineering to anyone with a couple of years of tech school. You are no longer protecting our title. You are no longer ensuring the public gets the best engineering available. This is the same problem as doctors letting Naturopaths and Chiropractors use the title, "Doctor".

Appendix 2

Verbatim Comments from Fall 2017 Information Sessions Electronic Survey)

The following are the detailed comments provided in response to the electronic survey on ASET's proposals on scope of practice changes for technologists.

Comments are presented as submitted and have not been edited except to remove personally identifying information.

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What is the most important reason for the ranking you provided in terms of your understanding of ASET's proposals?

- Read the ASET proposal.
- Only viewed APEGA's interpretation of ASET's proposal and have not looked at ASET report personally.
- Based on reading material from ASET and APEGA
- From reading ASET and APEGA information on the subject
- I clearly understand the concept of a scope of practice
- Numerous updates regarding ASET's proposal
- I'm not clear why a joint board would not be in the best interests of Albertans. It seems to me a joint board would allow clarity and prevent overlap of roles.
- Have not attended info session
- I have only reviewed the Apega video
- I did not review all publically available information, so it would be improper to claim a stronger understanding.
- Review of relevant materials. Years of practice in Alberta
- I have reviewed the documentation both parties produced
- I understand what ASET wants to do and APEGA's views on it, but some of the "how" are not perfectly clear or may not yet have been developed.
- I have not fully read the proposals, but I have read several summaries of both the APEGA and ASET proposals
- I don't understand why now. I was involved in the lobbying for P.Tech. If I had to guess I believe the process hasn't worked well for them and many people have left ASET because of it. However it is making Technologists look bad.
- ASET's proposed scope of practice begins itself into conflict with APEGA's normal scope of work and may well bring misunderstanding and confusion to users of engineering and technology services
- I have on viewed the APEGA video.
- Understand ASET's proposal but would like to hear their side of the story in their own words

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What is the most important reason for the ranking you provided in terms of your understanding of ASET's proposals?

- I believe what Barry Cavanaugh wrote in the Fall 2017 ASET magazine re the apparent agreement reached by the Joint Councils Committee on a agreed scope of practice in 2016. And indeed his narrative of events leading to that apparent agreement
- I have not read the complete proposals to the Government yet
- Read positions provided by both parties.
- I have reviewed the information provided by APEGA and have been involved with APEGA and ASET members on multiple designation reviews.
- I understand the proposal.
- ASET's proposal seems to be using irrelevant issues, such as somehow tying getting more women into ASET into justification for giving ASET independent authority for their members
- I understand exactly what they are trying to do. We must not let it happen. We allowed P. Techs acceptance and expanded roles in the past but the issue did not go away. They want to be Engineers the easy way. They are routes to achieving the APEGA certification etc. ASET wants the prestige etc without putting in the work to qualify.
- I was an ASET member since 1999/2000. This topic has been an ongoing issue but it seems it has come a hot item again. I let my ASET membership expire (formerly a RET) because there was no value anymore in being a RET with ASET, they were creating a professional training standard that I thought was not in line with that of APEGA.
- I have read them
- The difference between a technician, technologist and an engineer is made clear. As an individual who is a member of both ASET and APEGA, there is a reason to expand my knowledge and get a degree to allow my working window to expand and not be constricted. University degree is a much wider view and deeper thinking of topics. Diploma is much more plug into formula and compare to a standard, not deep understanding.
- I reviewed the three materials provided in great detail
- Video
- I stay informed
- I attended the info session
- I was previously registered as an RET with ASET until I achieved my P.L. (Eng) designation. I went through the process to achieve accreditation with APEGA and thus know what is required for registration.

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What is the most important reason for the ranking you provided in terms of your understanding of ASET's proposals?

- Some interruptions
- The video provided by APEGA was very informative. I also read the original statements by ASET and the response by APEGA a few months ago.
- I understand what ASET is proposing and the changes that are trying to make. I would like to understand more what APEGA wants to proceed with and how.
- I understand the ongoing issues for similar concerns in other provinces. The the most important thing to understand is the Engineers and Technologists have very different jobs, With that said, an Engineer should not do Technical work in the same manner the a Technologist should do Engineering. For this reason the oversight of Technologists should be by Technologists.
- It seems as though they want C.E.T.'s and P.Tech's to gain further scope and solve complex problems without having the additional education required or being able to authenticate the documents and take responsibility for them.
- My knowledge is primarily based on information provided in APEGA's video and not from my own independent research.
- Because I read the heading and I know what they are trying to accomplish... they want to be the equivalent of engineers without putting in their time and effort, and potentially having the intellect, for the engineering program.
- I am aware of the responsibility of a P.Eng., P.L., P.Tech., and CET and the video very well clarifies that.
- I'm aware of what ASET is trying to do.
- The video helped to explain it.
- I have fully read and understand the background information provided by ASET and APEGA
- I have reviewed the information material provided by APEGA and ASET however have not had the opportunity to attend an information session or discuss the proposed changes thoroughly with peers and colleagues.
- Reviewed their proposal and Apega's proposal
- My most important reason is that I have read statements from both APEGA and ASET on the topic and the requests that are being made. Read both views.
- Strong understanding of the educational differences (from teaching both technologists and engineers), limitations of codes & standards (serving on tech committees) and the major safety consequences of ASET's proposal. I rated 8 since ASET's desired scope is not written clearly enough to fully comprehend where they want the boundary set.

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What is the most important reason for the ranking you provided in terms of your understanding of ASET's proposals?

- need for independence of practice
- ASET explanations are straight forward.
- I have read ASETs proposed CET scope of practice and position statement on their website
- I am a member with ASET that has reviewed both APEGA and ASET's proposals and views
- I have studied the material provided by ASET
- It is unclear to me the reasoning for ASETs proposed changes, and each ASET document I read seems to focus on something slightly different. Whereas, APEGAs documents/responses make sense because the explanations for why they agree/disagree are clear and complete.
- Discussion with colleagues and watching the APEGA video
- Having been a technologist for 10+ years
- Researching information beyond the three sources provided at the start of this survey
- The APEGA's video clearly explained ASET's Proposal
- CET's should not be able to stamp anything. they should have to apply for the P.Tech
- ASET deserves to be able to have an independent scope of practice provided they can pass the required exams and they take personal responsibility for their approvals. I know some techs that are better at their job than a P Eng.
- I feel fairly versed through the background information provided in links from APEGA, I have reviewed the EGP act, and looked at some of the background information from ASET regarding licensing and the P. Tech program.
- Why should we have two organizations regulating the engineering industry? If you think how Apega regulates need improvement, raise it to Apega, to government or to public, trying to find a leeway to dodge from the currently working system is risky and I see no benefit of having two authorities and double standards on engineering practice, which will confuse the general public and as what Apega points out, may jeopardize the public safety. Regarding the fairness of treating foreign trained engineers or engineering technologists, myself is a foreign trained engineer, with my education BSc. in Chemical Engineering and extensive engineering experiences obtained in China. I agreed there were some additional steps for me comparing to local educated and trained engineers to acquire the P.Eng designation, but they were not unnecessary and I did not feel discrimination during the process. As a responsible engineer who wholeheartedly agree the Paramount

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What is the most important reason for the ranking you provided in terms of your understanding of ASET's proposals?

responsibility of an engineering professional is to protect the safety and interest of the public, you wouldn't mind to put additional efforts to prepare yourself both academically and ethnically before taking the responsibility, especially when you were educated and trained in a different country and culture.

- I understand that ASET is applying to the Alberta government to scope of practice for technologist
- I recognize that most of my colleague CET are quite competent. I do still believe ASET shouldn't have its own scope of practice.
- As an ASET member with a P.Tech.(Eng.) designation, as an APEGA member with a P.L.(Eng.) designation and as a responsible member of an engineering firm I am directly affected by this proposal. I graduated as an engineering technologist in 2006 and have been working at engineering firms in the oil and gas sector ever since (over 11 1/2 years now). I have worked on hundreds of different projects over my career and performed detailed engineering calculations along the way. I've followed industry standards and codes and have worked independently for the past 7 1/2 years. I have worked as a project manager and dealt with complex engineering problems for the past 4 years. BUT... because I do not have an engineering degree with a pinky ring, I have never been treated as an equal from any P.Eng. colleague throughout my career. I can speak from personal experience that technologists are not treated as equals due to the designation behind their name even though many may in fact be equally qualified to perform the same task as their P.Eng. counterparts. As a P.Tech.(Eng.) and P.L.(Eng.) I was given a narrow scope of practice to work within. I agree with ASET that I should not have to be held to such a narrow scope of work. By doing so, it is showing my customers and clients that I am only capable of performing specific tasks in a very specific area when in fact my professional ability to collect, process and analyze data is no different then my P.Eng. counterpart. My ability to engineer and design with operational safety and public safety as leading factors is also no different then my
- P.Eng. counterpart. My ability to evaluate systems, processes and equipment to effectively design is no different then my P.Eng. counterpart and my ability to apply technical mathematics and physics principals to solve engineering problems is no different then my P.Eng. counterpart. YET... I am still treated as inferior because I don't have "P.Eng." behind my name on my business card... I am held equally accountable for my actions in engineering and design as my P.Eng. counterpart so I should be treated as an equal professionally. The public should also view my designation as an equal to the P.Eng. designation and that I can be trusted and counted upon. I understand that APEGA must hold public safety in the highest regard and I completely agree

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What is the most important reason for the ranking you provided in terms of your understanding of ASET's proposals?

with that, but saying that an independent scope of practice for professional technologists "is not in the public interest and could jeopardize public safety", is not only incorrect it is insulting! Professional technologists are required to follow the same ethical and professional standards in their work as professional engineers are. Professional technologists are held accountable for their work, as they should be, they should also only be authenticating and performing work within their professional ability and it should be up to he or she to determine what that is, just as a professional engineer should do. Why would that effect public safety if a competent, educated and professionally responsible engineering technologist designed and authenticated a document? He or she is placing their approval on that document and held accountable for it. I know my own professional ability in engineering and design, I know my strengths and I know my weaknesses just as every professional engineer and technologist should. If I had an independent scope of practice I would never even consider engineering, designing or authenticating work that I was not familiar with or fully confident in. As a professional technologist I take just as much pride and responsibility for my work as a professional engineer does and I would only perform my work in my area of expertise. I have worked with dozens and dozens of professional engineers throughout my career and they follow the same principals as I mentioned above. They will only engineer, design and authenticate within their field of expertise. Why would an ethical, competent and capable professional technologist abuse this privilege? What professional gain would a technologist have to work outside of their professional ability and engineer, design and authenticate where they shouldn't? By allowing ASET to have an independent scope of practice for QUALIFIED, ETHICAL, COMPETENT and CAPABLE professional technologists DOES NOT jeopardize public safety it will only strengthen the profession and bring forth more accountability for safe engineering and design practices. It will also eliminate the current prejudice that professional engineers have towards professional technologists if they are both treated as equals. Not every technologist should be able to become a "Professional Technologist", but those with the experience, knowledge and capability should not have to be pigeon holed into narrow scopes of practices as they currently are. It is time for the profession to evolve!

- Jeopardy of public safety when two technical regulation bodies are present and potentially contradict each other and allowing not qualified personnel to practice without proper supervision
- Reading both ASET's news bulletin and APEGA's response
- I only viewed APEGAs side of the issue
- Previous experience with the issue and read information to obtain the understanding of desires have not changed over time and that the expanded scope based on the thought that codes cover everything as opposed to requiring insight and interpretation is flawed. Codes are dependent on

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What is the most important reason for the ranking you provided in terms of your understanding of ASET's proposals?

input and interpretation. Bad input, bad result. Bad interpretation, bad result. All engineering codes include a level of understanding of when and how to apply. Clear routes of accountability and authentication are also always of paramount importance.

- I personally have limited research into the topic and only have APEGA provided literature as a basis for forming an opinion.
- I haven't read the associated documents or watched the videos
- I understand how APEGA understands ASET's proposed changes. However, the ASET document is less clear and I am not certain from ASET's document what ASET's intentions are in their proposal.
- ASET is trying to open the discussion about who is responsible for Engineering work
- Based on the information provided in the video by APEGA to response to ASET proposed changes. It clearly explained the proposed changes.
- I've been in this profession for 33 years. I've listened to this debate since I was an EIT
- Was a member of council in the 90's and have followed ASET's determination for scope of practice for close to three decades
- I understand that they are incurring into the domain of P.Eng. What is vague is how they can do this.
- I was not that clear on the joint functions and scopes of Apega and ASET
- Scope of practice
- ASET wants its registered members to independently practice engineering works without professional engineers reviewing.
- Do not know ASET motivation for the proposed changes
- I don't have direct experience working with people that have the P.Tech. or CET designations. As such I don't fully appreciate what the daily work responsibilities are for these individuals.
- I feel the APEGA summary has provided me with an understanding of the issues at hand
- 39 years of engineering in Alberta with experience working with ASET members
- Reading the ASET response on the matter
- Public safety is paramount and definitions causing confusion needs strong revision

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What is the most important reason for the ranking you provided in terms of your understanding of ASET's proposals?

- I have followed the issue since I was an EIT in the mid nineties. That is when we started to see the changes in titles and experience required.
- have reviewed the information provided by Aset & Apega. Was involved as executive at the branch level in the mid 1980's
- I have not read in detail ASET's proposal
- I have over 40 years of work experience familiarity with engineering and technologist personnel, working under my managerial leadership, at various levels of organizational structure, in oil and gas owner, construction and engineering firms. In particular I have applied the APEGA Act and regulations in the performance of my employers projects from small consulting assignments to the largest industrial projects (\$20B+) in the province in the last 20 years.
- I have a clear understanding of most of the nuances of ASET's proposal
- My understanding is based on the information provided by APEGA
- The information presented in the video is clear
- APEGA video was much clearer than the two page submission from ASET
- I didn't read the proposal only the summary
- I have read the information
- I didn't fully understand exactly what ASET was proposing as the scope of practice for C.E.Ts.
- I understand what they are attempting to do. Just as they have for the last 25 years
- This is an old conversation. It is disappointing that leaders within ASET continuously undervalue or perhaps simply misunderstand the significant difference in education and responsibility between professional engineers and technologists. More disturbing is the disingenuous manner in which they actually seem to consistently try to confuse the public. This behavior should be addressed as the offense it is, along with providing the clarifications APEGA continuously provides
- Ambiguity are tactics used for those who seek more power when it is not qualified nor quantified.
- I feel that I have researched sufficiently to have a clear understanding of what is being proposed.
- I read it a few times. It seems simple enough.
- Not completely versed in all supporting material

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What is the most important reason for the ranking you provided in terms of your understanding of ASET's proposals?

- Generally I understand the position of A SET however I have not spend any significant time reviewing their position.
- Lack of background
- I understand Aset's frustration with their work being subjected to regulation
- Was not able to rank higher as I have not had an opportunity to discuss this issue with someone directly involved
- ASET presented a justification based on what is in place for other technologies such as medical, etc. but had no justification for their proposed changes based on engineering technology and public safety
- The Information session clarified the entire situation.
- I understand ASET's demands as they are not new!
- Have reviewed the material and understand exactly what ASET is proposing
- Would say 10, except that I don't know why ASET is making such a proposal if their primary interest is protecting the public.
- Have not done a complete review of the issues.
- It is reasonably clear they seek enhanced authority, similar to that sought over previous decades.
- I'm not working with technologists.
- I have attended APEGA's information session but have not read information in Aset 's website
- The information provided by Apega, and my negative interactions with ASET staff on the joint discipline committee.
- Having worked in the engineering field for over 30 years (most in Alberta) as a P. Eng. with many capable grades of technologists, I cannot fathom the need for the ASET proposal for all the good reasons outlined in the APEGA video. I have no reason to doubt the presentation however I have not read the ASET proposal myself.
- I have read articles on the topic, viewed videos and the proposed legislation. I have worked with a variety of designated professionals (those covered by both APEGA & ASET) and I have worked both in Canada and overseas as an expatriate Canadian engineer. This background has provided me with a broad basis for my assessment.
- I have read the related documents thoroughly
- ASET are attempting to gain engineering legitimacy and equivalency. Their academic requirements fall far short of that required to practice

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What is the most important reason for the ranking you provided in terms of your understanding of ASET's proposals?

engineering. APEGA is right to maintain the distinction between an engineer and a technician. The general public cannot know these requirements therefore APEGA has to ensure engineering is done by academically qualified engineers.

- I have been closely following this topic for many years.
- Information reviewed Responsibilities for becoming a professional engineer
- ASET's explanation on why they should be their own regulatory body and how the society would benefit from that doesn't make any sense. It imposes a high risk on society.
- Was one of the first RPT's...know both sides of the discussion very well.
- In listening to the video and reviewing the Apega submission, the focus is on CET's in the oil and gas sector, in my mind. However the ASET document refers to a wider range of types of technologist jobs. They also somehow link foreign trained engineers, and women in STEM programs to their goals, which further complicates their proposal, I believe
- Only read the APEGA post regarding responding to ASETs comments
- I have not reviewed all the info available
- Since I have not been a member for a extended period of time, I feel I do not have all the knolage to evaluate the intricacies of all the proposals.
- I understand what is being proposed. This is a stupid question.
- I am not completely clear on why the scope of practice is needed in order for ASET members to be regulated more thoroughly or appropriately.
- I have reviewed the available material and discussed with my colleagues
- It is clear that ASET believes they can be self-regulating. I disagree.
- It is clear to me that ASET's objective is to secure independent engineering practice rights to their members. The arguments they present, however, are very disturbing because they only affirm the fact that with all due respect they do not seem to comprehend the engineering process involved in developing the codes and standards.
- In a scenario where the ASET proposal is implemented, I don't quite fully understand how negative consequences resulting from a 'P.Tech.'s' work outside of their scope of practice (as is currently defined), would be mitigated and investigated in accordance to the Engineering and Geoscience Act if there are conflicts between two differing official Act administrators. It's very likely, in some scenarios, that both administrators would be

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What is the most important reason for the ranking you provided in terms of your understanding of ASET's proposals?

involved. Such scenarios would ultimately undermine the public's confidence in The Act and both Engineers/Geoscientists and Engineering/Geoscience Technologists that have a role in enforcing it.

- Understanding does not mean endorsing ASET's position on the contrary it reinforces my belief that the very idea a member of ASET can have the same rights and privileges as a P.Eng. is ridiculous.
- I would need the entire context and full ASET explanation/submittal in order to rate at 10
- Engineering industry experience (since 1957)
- I researched ASET's position on defined scope of practice for technologists before applying for PL(Eng) designation, but haven't examined it further since.
- 39 years of engineering practice and experience.
- Ongoing info from both ASET and APEGA.
- They are not engineers or geoscientists and therefore without the proper education and training can not act as if they are engineers or geoscientists.
- There is considerable grey area concerning scope of practice and definitions of designations.
- I have read the article and watched the video
- I did not indicate complete understanding as I have not directly read the complete submissions and am relying on the summaries provided by APEGA and ASET.
- Having reviewed the noted information (video, submissions etc.) as well as having worked with and supervised ASET members in my career.
- I was President of CEA in the early 1990's and had discussions with ASET at that time.
- Though the information provided in the APEGA video, APEGA statement in response to ASET' statement, as well as the ASET background information I have gain insight into the proposed topic but with all reviewing all related documents from both parties a full understanding cannot be reached
- Experience
- I understand the move ASET is trying to make; defined scope of practice without the education or experience necessary to ensure public safety. This is nothing more than an attempt to pick away at the engineering field of practice without having to go through the engineering process to get a degree.
- It is clear to me what they want.

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What is the most important reason for the ranking you provided in terms of your understanding of ASET's proposals?

- independent scope of practice
- have served for more than 30 years on the APEGA Board of Examiners, where we have reviewed the qualifications of technologist applicants to give them DSOPs.
- The most important reason is the practice under the existing standards. Merely following a standard does not guarantee that the work would be done safely. It is written in the standards "Although the intended primary application of this Standard is stated in its Scope, it is important to note that it remains the responsibility of the user of the Standard to judge its suitability for his particular purpose."
- Viewing the video gave me a clear idea of what the expectations and responsibilities of APEGA and ASET members are. I have also had the pleasure of working with many ASET members who were very valuable members of our team.
- Redoing the posted article
- I don't know anything about it
- I have reviewed and considered ASET's limited explanation, which I believe is lacking in detail regarding implications and impacts, particularly on public safety. I am also familiar with the similar situation of lawyers and paralegals, licensed and regulated (by a single body) in Ontario
- knowledge & understanding
- Time to study ASET's proposal
- I understand the issue being discussed, and the reasons behind the different positions of ASET & APEGA; but I have not given this topic a lot of time and attention
- I understand the proposal but not the reasons. Why does ASET want to act independently and what are their justifications.
- It was not a 10 because there is some ambiguity in the difference between what ASET currently has and what they are proposing. No scope versus scope, etc.
- Public safety
- Because I believe I understand what it is they want.
- I reviewed the video and the posting by APEGA
- I understand what they want but fail to see the logic leading to them believing that they can provide the same level of analysis that an Engineer can.

1

What is the most important reason for the ranking you provided in terms of your understanding of ASET's proposals?

- I have followed this issue since the 1970s. After each iteration with ASET they perpetually continue to go back to the Government of Alberta for more. I am convinced it will not stop after this iteration either.
- To gain more scope of work with less degree and education requirement
- I've been reading up on the topic, while I feel well informed I doubt I have all the information
- I was on Council when the current agreement was finalized which created the PL designation and the joint APEGA ASET review process for awarding this designation.
- They want to practice without supervision because the codes are already reviewed and anyone can apply them safely.
- I don't think any APEGA member can completely understand ASET's proposal as it is so inconsistent with the practice of geoscience and engineering.
- ASET has brought forward arguments that are more suited to other venues. The practice of Engineering is first and foremost the protection of the public. I see not connection between the difficulty of a foreign trained engineer to get employment and the protection of the public.
- Review of commentaries on this issue over the years, including APEGA's latest commentary.
- I reviewed ASET's website note, and the two page linked document. I also read APEGA's response to ASET's note, and I watched the video. I feel I have a clear understanding of ASET's proposal.
- Reviewing their submission and APEGA's submission
- I have been following this issue for the last 15 years.
- I believe it is the duty of APEGA to promote, protect and define the role of the professional engineer.
- My understanding of independent scope of practice
- I read the complete APEGA response and thought it was very well worded and that actions were fair.
- It is clear what ASET is proposing, although I do not agree at all
- I've talked to ASET members, read ASET's position postings and attended presentations (APEGA) regarding the issue.
- A CET can do any engineering work, why Alberta need P.Eng.? We do see too many very 'experienced' CET did engineering work without know why,

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What is the most important reason for the ranking you provided in terms of your understanding of ASET's proposals?

how come they ensure they did correct? Garbage in and garbage out can protect public safety? If two-year college graduated CET can do every engineering work, why Canada need University Engineering degree?

- I reviewed the recommended literature/ videos.
- I reviewed both the ASET and APEGA response documents.
- I believe I understand the issues; however I am not a regulatory expert.
- I read the Nov 20th post by APEGA, and the Nov 8th post by Barry Cavanaugh in full. I watched the accompanying video by APEGA. I feel as though I have a good high level understanding of the issue, but no detailed information.
- I have not reviewed the whole proposal
- Self investigation and speaking with other engineers and technologists.
- Well-thought and supported argument by APEGA regarding a complete scope of practice.
- I've read/watched the three links at the head of this survey, as well as ASET's original article & APEGA's follow up article.
- I have extensive experience in working as a P.Eng. and know how much education and experience required to take responsibility and consider people safety as your first priority.
- I've reviewed the documentation provided.
- I am not completely versed in the latest discussions but understand the long standing argument from both sides.
- I have reviewed APEGA's email on the topic so am somewhat familiar with the issue being described.
- Understanding of the request for independent practice.
- Reading on ASET's position and reasoning.
- I read the proposal, but I didn't get into the details
- I read a fair bit of what both ASET & APEGA have written, but I still find it a 'we said/they said' issue, and difficult to assess the 'truth'.
- codes and legalese are generally speaking quite verbose, so it's a fair chance that I'm not catching 100% of it.
- APEGA's explanation video.
- I have read both the information updates provided by APEGA and ASET along with the video outlining the three critical changes that are being discussed.

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What is the most important reason for the ranking you provided in terms of your understanding of ASET's proposals?

As such, I have an average amount of knowledge but not complete knowledge of the intricacies of each complete legislation.

- Did not fully review ASET submission
- I have been following this topic for the past 4 years and read everything that I have been able to get in my hands.
- This is based on the views that have been given by APEGA not agreeing with ASET's proposal
- Having worked closely with both engineers and technologists, I clearly understand the scope of work and the duties each performs.
- Have not read either submission
- Fairly good understanding based on the information I've taken in.
- The ranking is for only "understanding" of ASET's proposal
- I did not read ASETs proposal, only APEGAs summary of ASETs proposal
- I did not take the time to read ASETs submission
- ASET wants independant authority for providing Services to public.
- Read their proposal.
- The difference between the different ASET designations isn't totally clear to me.
- Have read and have a background on this issue
- I have been a CET and am now a P.Tech and a P.L, i understand exactly what ASET is trying to do.
- Using my formal education regarding the practice of engineering and my exposure to discussions concerning Act revisions and professional ethics, coupled with my fluency with the English language and visibility of societal trends, I feel very confident that I accurately understand what ASET is pursuing with their proposal documents.
- The information provided in the video and the graphics used are a challenge to challenge.
- Public safety and understanding. I have taken a 2-year technologist program and worked as a technologist before going back to complete a 4-year engineering degree and understand there is a significance between technologist and engineering education and work functions.
- Nuance.

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What is the most important reason for the ranking you provided in terms of your understanding of ASET's proposals?

- ASET's version of the situation significantly contradicts APEGA's so I'm not certain what is actually being proposed or wanted by ASET
- I understand their goals, however I do not agree with their tactics or end goal of CET scope of practice
- I have reviewed the two documents and one video provided here, but I have not attended any sessions or read either of the full documents submitted to the Alberta Government
- I only gave myself a 9 because I am not 100% familiar with the scope of work P.Tech and P.L's do as it is. I am wondering if indeed it is outdated. However, I do not agree that they should be given no supervision, especially when they do not receive the same level of education as an EIT or Peng
- I have not read ASET's document but am relying on summary provided by APEGA
- I think ASETs stance was laid out fairly clearly. They would like to add a description of a scope in which a CET can practice.
- it seems ASET wants to consider their technologist equivalent to P Eng but not willing to consider background experience.
- I reviewed ASET's proposed submission to the government.
- I have reviewed the applicable information and completed a technologist course prior to my engineering degree
- I can relate to it
- APEGA has presented a detailed explanation through the "Importance of Protecting the Public is Paramount" statement and accompanying video.
- I have read the proposals that ASET have made and I am familiar with the differences in practice between Engineers and Engineering Technologists.
- I've reviewed information provided by both APEGA and ASET independently on this issue.
- I sort of understand what both sides are saying but the letter that ASET posted seemed more akin to bickering whereas the APEGA letter was actually much easier to read and follow.
- I am familiar with the ASET position through my years of experience as an employee of APEGA and my current role in Engineering Governance for a major employer of both professional engineers and engineering technologists.
- Majority of the information I've learned is on the points APEGA pointed out in the video

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What is the most important reason for the ranking you provided in terms of your understanding of ASET's proposals?

- Based on the reviewed material and DVD from APEGA
- The APEGA video presented the issues in a clear and concise manner.
- The reason it is not higher is due to the lack of direct experience with a proponent of the stated changes by ASET.
- I read the linked proposal only, and may be missing some additional background information
- APEGA information provided by email and website
- I don't understand the reason for this, considering there is already a path for a C.E.T. to develop their own scope of practice (through the P.Tech. and P.L. designations), and of course one body (APEGA) needs to regulate all engineering in the Province. Convolution in who dictates what can lead to catastrophic results.
- The information given was very clear
- I have only read the ASET proposal once and I am relying on APEGA's interpretation as being accurate with respect to the rebuttal.
- Comparison between the current policy/ procedure and proposed one. What I am trying to understand is: Along this process everything should be approved by the two parties , why this conflict happened suddenly.
- It appears that ASET wants their members to be treated equally with APEGA members despite the lack of education and experience
- I understand fully.
- I understand the general idea behind ASET's proposal. I don't yet understand how scope's of practice work yet.
- I volunteer on the Enforcement Review Committee and have been familiar with ASET issues.
- I have both a Material Technologist degree from NAIT, as well as a Mechanical Engineering degree from the UofA. I have worked in various jobs, and have a good understanding of job roles, and responsibilities throughout industry. The APEGA video describes the scope of practices very well. I do not support ASET's proposals, and feel that there is a fundamental difference in the roles and responsibilities of a technologist, and an Engineer. The education, and work exposure of each are very different, and P.Eng's must remain accountable to keep Public Safety intact in all industries. Why make such drastic proposals when current existing processes work so well, and the public trust is in good long term standing. There is too much at stake to adopt ASET's proposals.

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What is the most important reason for the ranking you provided in terms of your understanding of ASET's proposals?

- I understand what ASET's proposals, and these will have issues on the safety to the public and can cause confusion in the professional practice of engineering.
- I am not clear why ASET feel their members have the experience and education to practice independently. Prior to becoming a P. Eng., I was a CET and at no time did I feel I wanted the responsibility of a P. Eng.
- Understanding the need for the practice of Engineering to be regulated in accordance with the existing Act.
- Safety for the public
- Attending several info sessions and familiarity with the issues over the past decades.
- I have reviewed the background material from ASET. It is generally clear, but I feel it does not thoroughly address implications of the proposed changes.
- Review of the APEGA discussion of ASET's proposals
- clear video
- The video gave a very good summary, but I'm sure there's some consequence I can't see.
- I have read the proposal submitted by ASET and the rebuttal by APEGA.
- I attended the information session, and was a member of ASET for many years before becoming a P.L. Eng
- Read the submission documents
- I only reviewed APEGA documentation, not ASET documents.
- based solely on the video
- I have a lack of understanding for the reason why APEGA and ASET are so entrenched on this issue. When asked at the session, no satisfactory response was provided by staff.
- While there is plenty of information shared by APEGA about ASET, there is little information directly from ASET offered to APEGA member queries raised in the session I attended. This appears contrary to the goal of full transparency. Is there any information prepared by ASET that APEGA is willing to share? Either the source location or a reproduction would suffice. Claims made by ASET interests at the session I attended cannot be assessed when only one side of the discussion is available. 7/10 is the highest I can rank 1/2 of the information. While I trust APEGA is being clear and objective, the allegations from the ASET interests are serious and demand unbiased information for my review and understanding to be higher.

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What is the most important reason for the ranking you provided in terms of your understanding of ASET's proposals?

- I believe I understood their proposed scope from the videos and the presentation I attended to
- I attended an info session so I am familiar with the material but I don't feel comfortable giving myself a 10.
- I understand the ASET submissions to the Alberta Government and to be clear I have reviewed and discussed them in detail with ASET. They appear to be significantly different than the APEGA interpretation and what is being presented by APEGA in these information sessions. As an example: ASET is requesting a Scope of Practice for P.Tech's. They are NOT requesting a Scope of Practice without Oversight. This interpretation would appear to be of APEGA's creation.
- Read background material and attended session.
- I fully understand the proposed changes and APEGA's response them
- I would like to review ASET's point of argument.
- I read thoroughly the provided documents
- Can't see any reason for the change of current system.
- Discussion with other members and viewing the video.
- I can read?
- I've review literature provided on the topic but have not debated the topic with supporters.
- I generally understand what they are asking. I don't understand why they are asking, and why they aren't suggesting increased experience requirements for the respective designations.
- Reviewed the video and understand the what was proposed by ASET, but did not review other materials for more details
- I have read and understood the ASET position and I am also an ASET member.
- I would like more practical suggestions on how to move forward without this turning into a battle between APEGA and ASET
- I understand what they are proposing but without knowing the reason why they are proposing the changes, it makes it hard to understand what is trying to be achieved.
- I have been aware of the issue from both ASET's and APEGA's sides, being both a P.Tech.(Eng.) and a P.L.(Eng.). (The wording and relevance of this question simply does not make sense to the preceding ranking, as I am either aware or not aware.)

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What is the most important reason for the ranking you provided in terms of your understanding of ASET's proposals?

- I understand both APEGA's and ASET'S positions but I have to side with APEGA as there can only be one regulator for practicing Engineering and Geoscience, and the requirement of consistently applied scopes of practice. I can appreciate how ASET would like to have greater control over the practice of engineering and geoscience technology, but with that comes accountability. I believe that there is little public risk with practicing engineering within existing prescriptive codes and standards (eg, CSA Z662, CSA B51, Canadian Electrical Code) with adequate oversight, but it is when these codes and standards are pushed to the limits that advanced engineering concepts, judgment and experience outside highly defined scopes of practice reduce risk and increase value.
- I feel that I lack the background to why ASET is requesting these legislative changes. Based on reading & hearing only one side of the story, I can only read between the lines to understand the background on the issue. I feel that APEGA and ASET need to make the following public information: - Their complete, original legislative change suggestions to the Government of Alberta. - The complete responses to each others' submissions. - Background documents explaining the complete rationale for their changes. As of right now, we only have the above from APEGA's side, and even there, background and rationale is carefully worded to protect APEGA's image to the Government. I feel that I can sense some long-standing disagreements between APEGA and ASET, and these are not addressed anywhere.
- I work with technologists but haven't been tracking their goal in this change too closely.
- Clearly stated what ASET recommended in the video provided.
- Unlike APEGA, which was created to manage compliance with EGPA, ASET is more like a trade union, protecting interests of its members.
- responsible for ACET accreditation as program head at NAIT
- Seems to use confusing language
- I understand the legislative responsibilities of an engineer in Alberta and those of a P. Tech, however my understanding of a P.L. is lacking.
- I have been CET I believe there are serious flaws with the P Tech designation when it comes to Geoscience. I currently hold a PL Geo designation
- I understand ASETs desire for independence. I also have experience working with ASET members.
- The summaries provided by APEGA and the documentation provided by APEGA to education myself on the issue provides a good summary on ASET's proposed changes.

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What is the most important reason for the ranking you provided in terms of your understanding of ASET's proposals?

- As a foreign graduate, I had to look at all possibilities to be licensed, including this one.
- I chose 9, since I have not attended a session to hear from ASET views on the subject, but I have been present and participated in discussions re ASET proposals during an APEGA committee meeting.
- appreciating their work contributions to engineering and geoscience.
- Have followed process for years. Thanks
- The definition of the scope of practice for each designation that was provided in the video was very descriptive.
- I have carefully reviewed the APEGA submission as well as ASET's background. As well, we have several P.Tech's at the company I'm employed by.
- I agree with APEGA on this issue.
- I have read all the literature and gone through the information session.
- Because it's not difficult to understand.
- It's not too difficult to understand.
- I have reviewed some of the material and participated in the online session, the 3 main issues at hand are not complicated. I did not rate higher because I do not understand ASET's position as to why they are asking for these changes.
- The proposals make sense
- Read all the documentation.
- I have reviewed the content provided and understand what is being discussed
- My understanding is based on watching the video only.
- Endangerment of public safety
- It was explained clearly in the video and by the facilitators of the webinar.
- I heard about it but haven't really dug into the details
- I don't believe techs have the scope of knowledge to operate unsupervised
- I read everything and understand it
- I have read all relevant material, attended an info session & heard the concerns of other members.

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What is the most important reason for the ranking you provided in terms of your understanding of ASET's proposals?

- I've reviewed all the documents and videos and believe I have a good understanding of what is being proposed.
- I haven't read ASETs submission to the government yet.
- I have APEGA's view, but have not been given opportunity for ASET to present their rationale separately. Bias is possible.
- Researched the subject, but not fully informed as to finer details.
- ASET is trying to declare themselves as an independent regulatory body like APEGA without proper supervision / control by APEGA
- I have been following this process for the past few years, discussing with colleagues, mentors, and family members practicing engineering in Alberta.
- Understand the video, but lots of information on complicated issue.
- I have read all the material and have discussed these changes with APEGA and ASET representatives intimately
- I understand what ASET wants to accomplish
- I have worked extensively with ASET members in developing our company's PPMP and also queried them on this latest proposed change
- The APEGA presentation at the information session was extremely clear and well presented.
- I read the ASET positions and listened to the presentation, it seems they are most concerned about their members and not public good.
- I have read the proposal and understand it - although I don't agree with it
- Information was shared by APEGA in detail and the Q/A session by members attending the meeting.
- I have not completed a detailed review of ASETs proposal.
- I understand the 3 ASET proposals as presented in the information session APEGA presentation
- Watched APEGA video and reviewed APEGA's submission to the Government of Alberta
- I feel that I am only hearing one side of the story, I understand the concerns from APEGA. However it seems that the presenters were only focusing on three parts of ASET's proposal that they didn't agree with, while also not being able to explain why these changes were proposed by ASET.
- I have reviewed the proposed changes ASET is proposing.

1

What is the most important reason for the ranking you provided in terms of your understanding of ASET's proposals?

- I understand ASET's proposals, what I don't understand is the reasoning or logic behind ASET's proposals.
- It is unclear why ASET is pushing for their proposed changes. There does not seem to be a clear benefit.
- Although I believe I understand the proposal, there is likely some small aspect that I may have missed.
- Watched necessary videos.
- After viewing the video, it is clear that ASET is still stuck on having CET's act as engineers, without passing the same hurdles that engineer's have to. It has been on-going for more than a decade.
- I fully understand the points that APEGA has issue with. I have not read ASET's submission therefore am not aware of everything within the document.
- Without reviewing the proposals in detail, there may be details I am missing. Generally, I have a good understanding of what is being proposed.
- I feel I understand the big picture consequences, but do not feel I have a good grasp of all the details involved.
- It will make contradiction about the scope of practices. This is not applicable to any other province in Canada, even some of the industry/company in Alberta don't allow this designation to authenticate documents also. Therefore, I am not agreed with the proposal of ASET.
- I think that the designations and responsibility of an Engineer and a Tech is clarified in this session. It was not clear in the scope of work and limitations of a P.L. and P.Tech as compared to an Engineer's responsibility in authenticating document, that confuses everyone on who should responsible at the end of the day.
- Review from info session and reading of Assets proposal
- the information session provided by Apega and the video provided a good executive summary of the proposed changes
- In attending the information session on October 11 (AM), there was still ambiguity on what exactly was ASET's rationale for wanting to make this change, and what issues currently exist that their recommendation would resolve.
- This is APEGA view I need to hear the ASET view.



What is the most important reason for the ranking you provided in terms of your understanding of APEGA's concerns with ASET's proposals?

- Watched the video
- Increasing the quantity of professionals who have an independent scope of practice and can authenticate decreases the quality of Engineering in Alberta and adversely effects public safety. These reasons clearly illustrate why ASET's proposals are nonsensical.
- APEGA video very clear and concise, have not yet read the full APEGA report.
- I am a practicing engineer and have provided oversight to technologists for 25 years. I have witnessed first hand the difficulties that technologists have when design requirements are not prescribed in detail. Being able to rationalize and make reasoned judgement using university level science and mathematics is beyond their training and understanding. Technologists have a very important role in our practice of engineering, but they lack certain fundamentals and comprehension to enable them to perform at the same level as engineers.
- From reading ASET and APEGA information on the subject.
- In it's article, APEGA clearly articulated the history and its reasons for objecting to ASET's proposals
- Clear understanding of the responsibilities conducted by APEGA and the Engineering profession
- The joint practice board is a good reason to ensure coordination and clarity of scope of practice. Otherwise joint meetings between ASET and APEGA would need to occur anyways and open the possibility of misunderstanding scope of practice etc.
- Position is clear
- APEGA's explanation of the proposal was very complete & was impartial in its approach.
- P. Eng with over 10 years of experience.
- I thoroughly reviewed the documentation APEGA produced.
- APEGA has done a good job of presenting its concerns and rational for those concerns in a concise way.



What is the most important reason for the ranking you provided in terms of your understanding of APEGA's concerns with ASET's proposals?

- APEGA has been a lot more consistent and fair with Technologists. My only worry is if this becomes really bad that I might lose my P.L. Eng designation
- It was well documented in the video.
- Video was well done and provided good background info.
- I sincerely that there is a fourth element present beyond the three stated in the video and that is APEGA Council and bureaucracy is extremely self-serving . It wraps itself in the cloak of protecting the public. Yet it takes into its membership EITs who have little or no more mentoring (I asked Ms. Moen does APEGA look into the ability of a company to provide adequate oversight of these young people ,I cited TransCanada where 200 EITs were on the books- her reply "That is a good question!!!!!!) APEGA MUST in my view conduct a Professional Interview with each candidate who will furnish a complete portfolio of the or work that can be competently assessed.
- I feel the concerns are obvious and relatively simple to understand
- Have followed APEGA's response to ASET
- I have been involved with multiple designation reviews
- I understand APEGA's objection.
- I too am concerned that ASET is simply trying to elevate the level of authority of its members, and itself, without having the same level of education and experience for their members as is obtained by P. ENG. And P. Geo, etc.
- We have to protect the public
- Point 1 and 2 are obvious concerns, point 3 however is a major red flag, if I look back to my experience and understanding as a CET (only two years of on job experience) I as deeply concerned on the level of competency that a young individual would have at this point.
- I have read them, attended the APEGA sessions and watched the video
- I reviewed the three materials provided in great detail.
- I stay informed
- Risk is the most important reason if we have independent scope of practice
- See previous comment.
- I agree with APEGA's concerns.
- the proposal would impact public interest and safety and this is unacceptable



What is the most important reason for the ranking you provided in terms of your understanding of APEGA's concerns with ASET's proposals?

- I've witnessed first hand the relationship between ASET members and APEGA members at work and the different skill sets and educational backgrounds the two possess.
- I understand the reasons. What we are going to do about it?
- It is a concern of APEGA that members of ASET do not overstep their qualifications. With that said can you compare the knowledge of a newly appointed P.Eng. to a P.Tech with 30 years of experience. I would have more confidence in the experienced P.Tech. as long as it is within his scope of practice.
- I agree that it poses increased risk to the public. The joint boards are important and oversight of their work is necessary.
- safety to public
- Lack of oversight of technologists' scope of practice by Professional Engineers, who have the advanced education and experience required to apply judgement and problem solving to complex situations.
- Video clearly identified APEGA's concerns with the recommendations made by ASET.
- Discussions with others
- I fully support APEGA's approach of not independently regulating P.Tech. and CET in the interest of public safety.
- I'm aware of APEGA's position
- The video helped to explain it.
- I have fully read and understand the information provided by APEGA regarding their position.
- Same as previous question.
- Protecting the Public, having two regulators increases the risk.
- Examples have been provided which clearly support the concerns from APEGA.
- Public Safety concerns
- protection of public safety and clarification of accountability
- I understand APEGA's concerns but they are either misunderstood or simply invalid. For example APEGA is worried about safety of a P.Tech.'s mobility working in other provinces. If a P.Tech. goes to another province then they along with whom they are working for the regulations. Not recognizing



What is the most important reason for the ranking you provided in terms of your understanding of APEGA's concerns with ASET's proposals?

P.Tech's as P.L. Eng because of the applicant not demonstrating the experience? Then change the process to demonstrate this. Worried about existing P.Tech's being grandfathered in? Then have them complete the additional step before getting approval.

- I have seen the video as well as read the APEGA response to the ASET position statement
- Watching the videos and reviewing the material available on this site.
- I have studied the position provided by APEGA
- APEGAs descriptions of their view and reasons are very clear, concise, and complete. They make sense and are consistent.
- Watching the video
- Concerns about adequate education and training
- Sources provided.
- The APEGA's video clearly pointed out our concerns for public safety, the need for the work to be authenticated by a Professional Member who has the education and experience, and be accountable to take responsibility for the work.
- there are a lot of engineers that do not take public safety to concern and should not have a full scope either
- APEGGA is trying to protect it's turf so I fully understand their desire to keep tech's out.
- I personally feel that there is a lack of oversight from ASET in regards to the P.Tech file, in addition to APEGA's comments and stated concerns.
- Same as above, protect the public should be utmost goal, adding another authorizing party does not help accomplishing that goal.
- I agree with APEGA that Technologists may apply for the P. TECH designation to achieve the goal of independent scope of practice.
- Having a consistent criteria of licensing professional is of general public 's interest:
- A detailed explanation of my professional opinion on this subject matter was explained earlier.
- Concern for public safety and quality of work delivered to public.
- The risk to public safety is apparent
- The concerns were made very clear and are justified



What is the most important reason for the ranking you provided in terms of your understanding of APEGA's concerns with ASET's proposals?

- There is a current system that allows for CET to progress to higher levels that I agree with. APEGA is correct in its view that the knowledge and experience base differs for engineers and geoscientists from that of technologists over my more than 30 years of real life experience with working and supervising both. I have worked with a few CET of great abilities who probably should have completed engineering degrees however those are few in comparison to overall workforce and these proposed changes are not for the few exceptions they are for the masses; which would be very inappropriate based on my experience.
- The concerns by APEGA were clearly explained. Sufficient detail and rationale was provided in a manner consistent with APEGAs' objectives and responsibilities.
- Codes and Standards are complex and require interpretation by an experienced engineer.
- Both the video APEGA provided and the article "We Agree – The Importance of Protecting the Public is Paramount" on the APEGA website clearly explained what APEGA's understanding of ASET's proposal was, and APEGA's concerns with that proposal.
- Public safety is paramount
- As experienced in construction projects, you cannot have 2 prime contractor responsible for safety. In this case 2 associations responsible for Engineering and Geoscience which ultimately affects the safety of the public. It is concerning because this is High risks and we as professionals should know better. If this goes ahead, we are setting ourselves up for failure - failure to the public, failure as a professional. If we finger point at each other when something does go wrong, we would lose our professional reputation which both associations worked hard to built over the years.
- Should I repeat myself?????????
- Fundamental issue is protection to the public and the thought one can use codes as recipes.
- Clear conflict with key provisions governing P.Eng
- The video helped me understand the complexity of the discussion and the potential repercussions ASET's proposed changes can bring to the practice of engineering in the province and to the safety of the public
- Public safety
- APEGA's professional members need to protect public safety which will have to oversee and check ASET's members works.
- Fully understand the APEGA's concerns



What is the most important reason for the ranking you provided in terms of your understanding of APEGA's concerns with ASET's proposals?

- I think APEGAs concerns regarding the proposed changes and their effect on the oversight of engineering and geoscience in the province are pretty straight forward and easy to understand.
- x
- As an P.Eng I share APEGAs concern over public safety
- Having been a responsible member and mentoring E.I.T.'s to P.Eng. accreditation and C.E.T.'s thru to P.Tech. certification.
- Reading APEGA's letter to the government.
- Public safety is a legislated duty of APEGA, and there must be clarity of what level of Education is required for complex engineering problems.
- I understand APEGA's concerns.
- Public Safety, and confusion for the public
- A single authority to regulate the professions makes the most sense given the experience and educational requirements of members of both organizations
- The education and experience required to ensure public trust and safety.
- I have a very clear understanding of APEGA's positions
- I agree with APEGA's point of view on the topic
- The information presented in the video is clear
- It is obvious from the summary what problems could occur
- I have read the info and my experience
- The response on APEGAs website was very descriptive and clear on what is and is not agreed between the two associations.
- We have to protect the public
- See written response for the previous question.
- APEGA is protecting my interests however, the libeta bias towards ASET is unfounded and unnecessary.
- I feel that I have researched sufficiently to have a clear understanding of what is proposed.
- I read it a few times. It seems simple enough.
- joint oversight is critical



What is the most important reason for the ranking you provided in terms of your understanding of APEGA's concerns with ASET's proposals?

- I carefully reviewed the APEGA council response.
- lack of total knowledge
- I also understand Apega's concern that Aset's proposal will expose the public to risk
- I fully agree with APEGA's positions as stated in the referred to documents. This is based on my own experience over the past 40+ years as a P.Eng. However, I have not been following the issue lately and probably have not seen the full extent of the debate to be able to assign a 10.
- Was not able to rank higher as I have not had an opportunity to discuss this issue with someone directly involved
- The Information session clarified the entire situation.
- Need to protect the public, industry and investors by having Professional Engineer take final responsibility.
- Scope of practice.
- As a professional engineer I understand APEGA's viewpoint after reviewing all the material
- Am an engineer and have seen the differences between CETs, PLEngs and PEngs.
- Independent regulation of engineering and geoscience practice by APEGA and ASET put the public at rick. The sole regulation should rest on APEGA in consultation with ASET.
- Current status of legislation, roles at various levels, and concerns were clearly described by APEGA.
- They are clearly stated here: <https://www.apega.ca/news/aset-response-protecting-the-public>
- The safety of public is very important. There is a pathway for technologist to become licenced. Having multiple associations overseeing the regulation of engineering professionals will not work in the public's best interest.
- The public needs to know that there is one organization the is responsible for public safety.
- I fully agree with the APEGA concerns based on my own working experience as a P. Eng. having managed many P. Eng. and Technologist staff however my tenure ended before the more recent PT designation or at least before it was widespread.
- Same reason as given for my previously provided ranking.



What is the most important reason for the ranking you provided in terms of your understanding of APEGA's concerns with ASET's proposals?

- I have read the documents
- Technicians should not be doing unsupervised engineering work.
- I am a member of ASET and APEGA. I have been a member of ASET much longer and feel that I am better informed about ASET's position than I am about APEGA's position.
- Having two different self regulatory bodies in one province is not beneficial to anyone.
- attended info sessions and had many discussions with PEng's and PL's
- APEGA is crystal clear on a major reason for their proposal - the continuation of one regulation and one governing body for the scope of practice. A second very strong argument is that of the positions in all other provinces. A different designation for CET's from Alberta would not be recognized by other provinces.
- I believe I understand the concerns. The post was very clear
- Per the previous comment
- A higher reading would have required more background study
- Recently finishing ethics class at the university of Saskatchewan
- Again, stupid question.
- safety is of the number one concern
- For Public Safety and to protect the interest of the Public: I have a BASc degree from UBC and I have 35 years experience of continuous engineering practice and 20 years as a self-employed engineering consultant; designing and the project management of Bulk Fuel Storage and associated Facilities in Northern Canada.
- I feel that I understand the fundamental problem, which is that APEGA is concerned by the loosening of the boundary between an engineer and a technologist. This would allow technologists, who would not be regulated by APEGA, to perform essentially the same work as what APEGA-regulated members perform.
- I feel I have a good understanding of the issues.
- Most important reason is that APEGA cannot agree with technologist self-regulation. I agree.
- In APEGA's website response post to Mr. Cavanaugh's remarks. There was an example given concerning the ASME BPVC regarding the limitations of the code, which highlights a very important principle, which is that 'sound



What is the most important reason for the ranking you provided in terms of your understanding of APEGA's concerns with ASET's proposals?

engineering judgment shall govern (authority implied), and not simply the code'. As we all know, codes are subject to revision and interpretations, leading to conflicts. In any professional or legislative situation, there needs to be one (1) authority to manage conflicts. I interpret APEGA's stance to the proposed ASET changes as a general application of this principle to a scope of practice of a professional.

- APEGA must step up and call it the way it is. A nurse cannot be a doctor without going through the required education, training and licensing. But nurses play a very important role. I understand the analogy and how APEGA is and must be concerned for public safety as if nurses are allowed to prescribe drugs and perform surgery. There is obviously a mine field here of political correctness challenges but APEGA is doing a good job so far.
- The reason being that P.Engs are required to constantly upgrade their knowledge via seminars, webinars and courses at Universities. Where is the requirement for technicians whose basic academic knowledge is to say the least rudimentary.
- Past experience in engineering evidencing technicians desire to be recognized as 'professionally' equal to registered professional engineers.
- I feel I have a very good understanding
- In the course of completing my PL(Eng) application I came to appreciate how much vetting, and reference checking separates a Technologist from an Engineer.
- 39 years of engineering practice and experience.
- Understanding of both aset and apegas responsibilities.
- See previous comments.
- The concerns were clearly described in the APEGA response to ASET proposal to govt.
- I understand that public safety is paramount and as a member of APEGA I understand the duties I have to the public.
- The overview video clearly and concisely outlined APEGA's position on the matter.
- Public safety, operational safety, energy and environment safety
- Having reviewed the applicable information as well as great understanding of the practice of engineering and authentication.
- Apega has presented their concerns to the Proposal of Scope Practice changes in a clear and concise manner



What is the most important reason for the ranking you provided in terms of your understanding of APEGA's concerns with ASET's proposals?

- Very familiar with the issue and historical discussions.
- Experience
- Engineers are called that for the reasons that combine education exposure and experience to properly analyze a solution to a particular engineering problem.
- It is very clear to me that the safety of the public is a paramount consideration.
- universal independent scope of practice for CET's
- There needs to be more clarity on what things engineers do that protects the public. We are told both that we can perform engineering at full breadth and depth and at the same time we are not to practice outside our scope. These statements are somewhat contradictory without clarification on how our association regimentally is able to justify an engineer is competent to perform full breadth and depth.
- The minimum qualifications required to be a technologist are insufficient to practice as professional engineer or geoscientist.
- APEGA's video
- Discussions with local branch executive and other P. Eng's
- I have reviewed the information provided by APEGA. I believe it is comprehensive and detailed, and addresses public safety concerns as well as provides a reasonable standard to compare with, being other jurisdictions in Canada. I am also familiar with the similar situation of lawyer and paralegal regulation (by a single body) in Ontario.
- Same as above
- knowledge & understanding
- I understand the APEGA position of concern for public safety.
- I agree with APEGA's position. ASET members are not to be in a position to act and regulate themselves in the engineering profession independently of a P.Eng.
- APEGA's interest in holding public safety paramount is the correct attitude.
- APEGA lost the battle when they allowed ASET in the professional fold
- Baseline of Codes and Ethics
- Again, because I believe I understand APEGA's objections.
- APEGA stand is the same now as it was since I was licensed in 1979.



What is the most important reason for the ranking you provided in terms of your understanding of APEGA's concerns with ASET's proposals?

- I have followed this issue since the 1970s. After each iteration with ASET they perpetually continue to go back to the Government of Alberta for more. I am convinced it will not stop after this iteration either.
- Public safety
- It makes sense that complex problems are solved by someone who has higher education and training, such as an Engineer, and not at a technologist level.
- Public safety is paramount and should be
- My being on Council when the current agreement was finalized and approved by APEGA and ASET Councils.
- If ASET members can apply codes without oversight, then anyone can build a steel building because the CISC made a code, or a wood building because the wood council made a code, or ABC is available. By definition Engineering is the only profession that can work without oversight, EVERYONE else needs the oversight of an Engineer.
- I understand what APEGA is proposing, although on several points I do not agree with it.
- APEGA continues to reinforce the end goal of public protection.
- See previous comment.
- The video clearly presents the risks.
- Reviewing APEGA's submission
- I have been following this issue for the last 15 years
- The key factor to me is the ability to take responsibility for your work as a practising professional
- Reasoning provided in apega's response to the AB govt
- same as last question
- It is completely clear and well supported
- In Alberta, seems APEGA is only responsible for charge P.Eng. member fee, but can't protect P.Eng.'s working right. So many engineering companies only hire CET, not P.Eng. Seems APEGA did nothing for his P.Eng. members.
- I've informed myself of both APEGA's and ASET's position, and their respective reasoning for that basis.
- I reviewed the recommended literature/ videos.
- I reviewed the ASET and APEGA response documents.



What is the most important reason for the ranking you provided in terms of your understanding of APEGA's concerns with ASET's proposals?

- I agree that what ASET is proposing will be confusing to the public and may not be in the best interests of public safety.
- I agree completely with APEGA's concerns. The assertion by ASET that Codes and Standards can be applied by anyone is a clear demonstration that they do not understand the scope of the Codes and Standards held in force by legislation.
- I have not read APEGA's full proposal
- Lack of clarification on APEGA's concerns resulted in a slightly lower ranking.
- I've read all the relevant material, and I understand their concerns.
- people safety and confusing people on responsible members
- The clear mandate that the Government of Alberta entrusted to APEGA when it comes to paramount Public Safety first and the accountability of the Professional that oversight the works of Technologists.
- Again, I have reviewed APEGA's email on this matter and understand the relevance and importance of this issue.
- I've reviewed the documentation provided.
- I am not completely versed in the latest discussions but understand the long standing argument from both sides.
- Practice outside of established codes by C.E.T.'s
- Reading on APEGA's position.
- As a responsible member, I totally understand and support APEGA's position on this matter
- I think protection of the public is paramount, and I do see where APEGA does that, and I don't see that ASET does.
- codes and legalese are generally speaking quite verbose, so it's a fair chance that I'm not catching 100% of it.
- Public safety.
- I have reviewed the video and read the response and believe that I understand the concerns/issues presented.
- I have worked closely with both CETs, P.Techs, and P.Engs throughout my career. I understand the reasoning behind having no scope of practice defined for CETs and the fact that there is a clear progression path if they feel they would like advancement in their career. It is also critical that there is joint oversight between APEGA and ASET for P.Techs and P.Ls.



What is the most important reason for the ranking you provided in terms of your understanding of APEGA's concerns with ASET's proposals?

- Apega's explanation video and working experience.
- Video was concise and informative
- Same answer as before. Following for past 4 years and read everything I could find.
- The APEGA submission and the video are very clear on their proposal
- I do understand APEGA's reasoning, but I also agree with many of the points that ASET brings up. I do not understand why APEGA is so threatened to have the technologists' scope legally defined.
- Understanding and application of codes such as ASME B&PV code is complicated and requires a professional engineer.
- Working within industry, with P. Techs and CETs, and understanding the onus of a self-regulation. If you continue to expand the number of members who can practice independently you lose control.
- I totally understand and "AGREE" with APEGA
- APEGA makes good points, especially in their summary video. Practice of engineering must not be taken lightly
- I read the post on the APEGA website
- APEGA's Professionals area very well recognized by their education, qualifications and experience for providing services to public. APEGA can not, should not and will not support ASET's demands. I am in full support to APEGA.
- Read APEGA's email send out summarizing the matter.
- I believe the concerns are valid but maybe overestimating the amount of actual risk to the public.
- Same as previous
- APEGA would like to keep CET as it is and have pathway for P.Tech (or P.L) for them to expand. Makes sense.
- Using my formal education regarding the practice of engineering and my exposure to discussions concerning Act revisions and professional ethics, coupled with my fluency with the English language and visibility of societal trends, I feel extremely confident that I accurately understand what APEGA is intending to communicate.
- It is clear the stance APEGA is taking



What is the most important reason for the ranking you provided in terms of your understanding of APEGA's concerns with ASET's proposals?

- Public safety - technologists do not have the education requirements to perform engineering function. The current system which co-regulates P.Tech is the best route for a technologist.
- It is explained more clearly and more objectively.
- I understand APEGA's stance on What they believe ASET wants.
- Confusion to the public between a P.Eng and a C.E.T
- I have reviewed the two documents and one video provided here, but I have not attended any sessions or read either of the full documents submitted to the Alberta Government
- I 100% agree that the public is our number one concern. That is the sole reason we as engineers receive the iron ring. It is a constant reminder of what can happen when public safety is not adhered to. For this reason I stand beside APEGA with their concerns
- Have reviewed APEGA documents and video.
- APEGA's stance is fairly clear as well. They would like to maintain the current P.Tech structure + Limited licensee and joint board oversight
- The judgement that a p.eng. Or p.geo. CN exercise due to formal engineering education combined with formal training is the only reliable guarantee to ensure public safety. This ability cannot be substituted by reliance on prescriptive codes and standards. The government of Alberta must harmonize its Act of self regulation with the rest of Canada. The only pathway to full scope or expanded scope of practice must remain through formal engineering/geoscience education combined with formal training. A P.Tech who aspires to achieve full scope of practice must go back to school and obtain a university degree.
- the video provided was very detailed
- Apega has not lived up to the expectations of the general public. It has actually gotten worse as an organisation with time
- It is very clear what Apega is seeking to accomplish, clarity of roles and safety of the public
- I've reviewed information from both APEGA and ASET on this issue.
- I sort of provided it in the last question. The information APEGA provided is straightforward and follows a flow of logic that I couldn't see in the ASET letter. Some of the ASET letter did seem to make sense but it was a bit hard to know what was fact vs what was opinion because of how it was written. The other thing I appreciated was the level of detail in the three column paper where things were laid out according to the applicable legislation.



What is the most important reason for the ranking you provided in terms of your understanding of APEGA's concerns with ASET's proposals?

- I am familiar with the ASET position through my years of experience as an employee of APEGA and my current role in Engineering Governance for a major employer of both professional engineers and engineering technologists.
- I understand APEGA's arguments but don't entirely agree
- I have reviewed APEGA's DVD and I am very supportive with APEGA's position, ASET's proposal is adding very much risk to the public safety without any control or oversight from the governing party!
- Same as before, plus I am 100% in agreement with APEGA's stance.
- I have thoroughly read through the APEGA response to the ASET proposals.
- I feel like APEGA gave a complete explanation of the issue, including background, discussion of the status quo, and why the ASET proposal does not offer an improvement to the status quo
- Apega information from email and website
- Makes sense and I understand APEGA's reasons. They also still accommodate growth from C.E.T.'s through P.Tech. and P.L.
- Their concerns are valid
- I have only read the concerns once and skimmed through some portions of the explanations. I am relying partially on the discussions held during the information session "fill in the blanks".
- I clearly understand APEGA point of view and this was clarified during the session i attended.
- As a PEng I believe that our education and experience allows us to evaluate complex issues with a broader knowledge base than most Techs
- I fully understand. And it doesn't make any sense that Eng. Tech's can act in complete independence!
- I've been following this issue. The only thing I'm not clear on is ASET's stated position.
- I have both a Material Technologist degree from NAIT, as well as a Mechanical Engineering degree from the UofA. I have worked in various jobs, and have a good understanding of job roles, and responsibilities throughout industry. The APEGA video describes the scope of practices very well. I do not support ASET's proposals, and feel that there is a fundamental difference in the roles and responsibilities of a technologist, and an Engineer. The education, and work exposure of each are very different, and P.Eng's must remain accountable to keep Public Safety



What is the most important reason for the ranking you provided in terms of your understanding of APEGA's concerns with ASET's proposals?

intact in all industries. Why make such drastic proposals when current existing processes work so well, and the public trust is in good long term standing. There is too much at stake to adopt ASET's proposals.

- I understand what APEGA's stand with regards to these ASET's proposal, 'Safety to the public and to avoid confusion in the professional practice of engineering.
- I understand the main summary points however I may not have a full understanding of all of the relevant background info.
- As a registered Professional Member of APEGA, I feel that APEGAs stand point represents my interests and of all other Professional Members.
- Public safety
- Unnecessary risk for the public
- Familiarity with issues over past decades and info provided by APEGA.
- I have reviewed the background information from both APEGA and ASET. The APEGA information is well thought out and explained.
- I have attended an APEGA information session on the proposed ASET changes
- Public Safety
- I have watched the video and read the rebuttal.
- I attended the information session and was a member of ASET for many years before becoming a P.L.Eng
- Read the submission documents
- I attended the APEGA session and fully understand the concerns, based on my own experience.
- I understand APEGA's position that we need to avoid public confusion on who can practice engineering and we should only have one regulator in the province.
- I think I've heard/read APEGA's point of view in enough ways (video, discussion, and print) but I may not fully understand thus 9/10
- I believe APEGA's position to oppose their proposal is legitimate and can potentially compromise public safety
- I have heard APEGA's concerns. They though do not reflect the actual ASET proposed change requests.
- I attended an info session so I am familiar with the material and I agree with the rationale provided by APEGA.



What is the most important reason for the ranking you provided in terms of your understanding of APEGA's concerns with ASET's proposals?

- I understand and agree
- The APEGA video and information on their website provides a lot of clarity and background information.
- I read thoroughly the provided documents
- This is a public safety issue.
- The public is easily misled by apparent “savings” and the proliferation of software tools is allowing work to be done with little understanding of the principles employed.
- ?
- I watched the video: APEGA'S Response to ASET's Scope of Practice Proposal
- I have the same reservations as the ones raised by APEGA.
- I fully agree with APEGA's concerns on the issue.
- I understand APEGA's position in ensuring that there is only one regulator governing the practice of engineering and geosciences in Alberta, the need for consistency when developing and applying scopes of practice, and who is accountable in the end for public safety.
- Same as previous question
- I have read and understood the APEGA position and am an APEGA member.
- The issue is clear. There is a risk to the public with ASET's proposals.
- I support the position APEGA has taken
- I am keenly aware that ASET's focus is in response to APEGA's desire to revert all P.L.(Eng.) and P.L.(Geo.) memberships to ASET. ASET has correspondingly recognized the work that the P.L. (Eng/Geo) community is already doing, and rather seeing those members cut off at the knees, has chosen to propose that P.Tech.(Eng/Geo) designations are given the freedom that P.L.(Eng/Geo) members of APEGA already have. ASET is far more member-focused than APEGA. (Again, the wording of this question in regards to ranking lacks relevance.)
- APEGA has done a good job of explaining their objections, and stating reasons for those objections. While I do not agree with them in whole, I do understand where APEGA is coming from.
- I have concern about the overlap of responsibilities and have completed both levels of education.



What is the most important reason for the ranking you provided in terms of your understanding of APEGA's concerns with ASET's proposals?

- Public safety and blurring the line between qualified and unqualified staff.
- APEGA is right on all three points. ASET proposal is a clear indication they are not concerned about EGPA.
- My experience as an instructor in a technology program at NAUT
- Detailed albeit long response.
- As a member of APEGA I fully realize the extent and utmost importance of public safety, all concerns raised by APEGA ultimately affect it.
- CET and P Tech should have the demonstrated and assessed ability and knowledge in order to authenticate. Without a process to verify there is risk to the public
- I understand the issues regarding competency, analytical capacity, and complex work.
- APEGA's clear and consistent communication regarding their concerns about the scope of practice changes.
- Clearly APEGA wants to protect its own field and members from other professions encroachment.
- The proposed changes will create a safety risk to the public and will create uncertainty in practice of eng., also it will send a wrong message to other provinces/territories.
- Clearly defined the scope definition and battery limits between title designations given to primarily ASET members.
- Protect public.
- The repeated message of potential risk to the public in the APEGA video reinforced each of the objections by APEGA to the ASET proposal.
- As a responsible member of the company I'm employed by, and a supervisor over other P.Eng's I understand the Engineering and Geosciences Professions Act. As mentioned previously, I have closely read ASET's proposal, as well as APEGA's response as it directly impacts myself, other professional members under my direct supervision, my employer, as well as consultants that provide services to my employer.
- I agree with APEGA on this issue, that the public is at risk with ASET's proposal.
- Engineers (Apega) need to ensure public safety. I have read all the literature provided and gone through the info session.
- The video explained them.



What is the most important reason for the ranking you provided in terms of your understanding of APEGA's concerns with ASET's proposals?

- APEGA is intent o protecting its turf.
- Apega also has reasonable arguments but they need to let ASET regulate themselves
- Read the documentation and agree with APEGA's stance.
- I have reviewed the information provided and understand APEGA's positions.
- My understanding is based on watching the video only.
- I am concerned about public safety and mobility of professionals in other Canadian Provinces.
- Same as previous reason
- Same as before, know about it but have not investigated the details
- Concerns raised by APEGA were the same concerns that I have as an engineer, as to the potential risks to public safety for expanding the scope of P.Tech.'s and C.E.T.'s. I have already seen a lack of enforcement of P.Tech.'s only practicing within known codes and standards. Allowing CET's to have the same privileges without the required experience can have dangerous consequences.
- As a PEng we have a broader educational and ethical understanding of what is required to make decisions that affect the public
- I read everything and understand it
- I have read all relevant material, attended an info session & heard the concerns of other members.
- I've reviewed all the documents and videos and believe I have a good understanding of what is being proposed.
- I fully agree with the concern.
- APEGA has made its concerns very clear and tied them to public safety considerations.
- Researched the subject, but not fully informed as to finer details.
- I share the same perspective and have been well informed through my education at the University of Alberta, APEGA events, and professional mentorship about the role and responsibilities of the various designations within the profession of engineering.
- Engagement with APEGA
- I don't believe apega fully realizes the ramifications of allowing technologists a pathway to stamping capabilities



What is the most important reason for the ranking you provided in terms of your understanding of APEGA's concerns with ASET's proposals?

- I have researched and discussed these concerns in the APEGA session and within my company
- The APEGA presentation at the information session was extremely clear and well presented.
- APEGA's positions as stated in the document and presentation were well reasoned.
- APEGA's concerns are largely based on public safety - as they should be
- Public safety risk and the confusion it would cause if ASET's recommendations are adopted.
- I have attended the info session and have reviewed the APEGA material.
- I have attended the info session and have reviewed the APEGA material.
- I understand and agree with the rationale behind APEGA's disagreement with the 3 ASET proposals
- Watched APEGA's video and reviewed APEGA's submission to the Government of Alberta
- The video and the presenters continued to repeat the words "public safety is at risk" with ASET's proposed changes.
- I watched the video of Proposed changes that APEGA created.
- Public safety.
- The APEGA position is very clear and the reason for concern is clearly laid out.
- The position of APEGA is made clearly.
- Understanding and involvement with APEGA
- After practicing engineering for more than 10 years, my experience has been that evaluating the design risks to exhaustion and taking responsibility for the design are the most important aspects of engineering.
- I fully understand the concerns APEGA has with ASET's proposal. Being a P.Eng. with APEGA I understand where responsibilities exist and the reason why they are the way they are.
- Same as reason for ASET's proposal.
- I feel I understand where APEGA is coming from in terms of their concerns.
- APEGA is the only authority to regulate the engineering practice in Alberta. There is a lot of academic and experience difference between a P.Eng. and a P.Tech. holders. So these two should not be the same power of authentication.



What is the most important reason for the ranking you provided in terms of your understanding of APEGA's concerns with ASET's proposals?

- the information provided at the Apega info session
- the issue that this would cause confusion in the public on who is qualified as an engineer, what needs to be authenticated, and causes significant risk to the public as there would be an automatic granting of privileges just based upon a title (CET would get P.Tech capabilities, and P.Tech would get PL capabilities) with no assessment of the individuals specific skills. ASETs own website defines a CET as someone who exercises independent judgement to perform technical tasks and solve problems in complex technical areas with limited direct supervision. This would imply that ASET feels they are already capable of solving complex issues.
- I have access to all APEGA view.



What is the most important reason for the ranking you provided in terms of your level of agreement with APEGA's position on the ASET proposals?

- ASET used the argument that ASME pressure vessel code is a code that stands alone for design purposes; and use of it in cookie cutter fashion yields an acceptable design. Do not agree with that.
- Public safety is paramount and any introduction of new risk is unnecessary.
- APEGA has been reasonable and rationale, where as ASET appears more flippant and dodgy in there mandate. APEGA is giving qualified ASET members to achieve a limited scope of practice which is appropriate for the education and work that they do.
- I agree with the difference is designations and also I disagree with the proposal that CETs be permitted to practice without oversight.
- Public safety remains paramount and a scope of practice is rightly restricted to APEGA-regulated (including jointly regulated) professionals.
- Primary concern is protection of the public.
- Coordinating scope of practice to ensure overall public trust.
- Expanded SOP without individual assessment by a professional will introduce additional risks to the public and the environment.
- Public safety
- As a P.Eng, public safety is paramount. The proposed scope of practice changes by ASET is alarming, given the technologist's lack of non-routine experience
- I agree with all of APEGA's concerns but believe they actually do not go far enough. The P.Tech designation already goes way too far in allowing individuals without the requisite training to essentially practice engineering without APEGA oversight. This was a mistake and is not consistent in other jurisdictions. This should serve as a reminder to APEGA that once the genie is out of the bottle he is awfully hard to put back.
- Many of the arguments feel as though they are reaching and do not have substance.
- I agree with a vast majority of APEGA's view on the issue, but I can also see what ASET would like to do and why. I think there are some areas where

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ASET could be more self-regulating; however, I think those changes still need to be in line with the Act.

- It is important that proper education and experience is used to determine the level of responsibility. There are pathways available for technologist to gain a scope of practice already.
- I believe ASET is doing this for memberships only and has no interest in the public good. This is from my own personal experience anyways.
- Users of APEGA's membership for engineering services need clarity on reliance of permits and approvals provided by APEGA members
- There should not be two engineering regulators
- Would like to hear ASET's side of the story.
- I don't think APEGA has made a credible case. I'll go further I don't think they have the basis on which to make a credible case.
- Think that the level of engineering practice must be appropriately regulated to protect the public to prevent unskilled practice.
- There is unacceptable risk to the public with ASET's recommendations
- This discussion is a distraction from APEGA's attempted power grab. This power grab will make it impossible for any business to operate in Alberta. I'm referring specifically to APEGA's proposal to demand any engineering document, documents which contain trade and possibly military secrets, and APEGA's desire to be able to replace key people. This again will make it impossible for companies to maintain secrecy, and a competitive advantage. Replacing key people will also have an impact on whether projects finish on time. What's more, APEGA wants to treat all engineers as guilty until proven innocent.
- Obtaining a four year degree in Engineering or Geoscience gives a person a much broader background, and proves their intelligence, which I believe enables them to better handle situations that are not precisely covered by codes and standards. Engineering Judgement is a concept that should only be exercised by those with a high level of education and experience, and recognition by their peers, as required to obtain P. ENG. or P. Geo. certification, and the ability to sign off their own work.
- Again, I believe you are doing the right thing. APEGA along with the Alberta Government has been the only province that has been willing to work with and create a means for ASET members to put a P. Tech behind their name, if this P. Tech can still apply for a P.L. why all the tension. I'm truly disappointed in ASET's approach to this matter and I believe that this is more of a membership retainer (money) issue than a issue of professional

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engineering and safety. I'm truly disappointed in my former counterparts in not trying to work with APEGA to create a joint association rather than this mess that they are proposing. Safety, has to be top priority and I believe a 22 year old CET does not fit that bill (in my industry anyways). I can't comment on the P.Tech part because I became a P.L. prior to that being introduced.

- APEGA misrepresents what ASET is asking for. ASET is requesting a "Scope of Practice" only. Only APEGA makes the assertion the this Scope of Practice is "independant" and "without oversight". This misleading terminology is only in APEGA documents.
- I completely agree with APEGA's position on this matter as it is in the best interest of the public.
- If nait trained individuals think they come anywhere close trained engineers they are fooling themselves and the public. Today it is hard to find a competent engineer let alone a nait grad. Public would be at huge risk of being killed - just give it time.
- APEGA's stance is protectionist and erroneous. Public safety is not in jeopardy.
- CET's do not have the experience to practice independently.
- Complete agreement
- Our job is highly dependent on education and experience levels and the absence of any would compromise the public safety
- APEGA needs to hold paramount the interest of public safety. We should not allow those who are inexperienced to jeopardize public safety. As mentioned in the video there is already a vehicle for CETs to gain more responsibility and recognition for the work they do.
- The two associations need to work together, but as these are very different disciplines, there does need to be some separation and ASET should have control on the certification process of Technologists with close involvement with APEGA
- safety to public
- I don't believe the recommendations by ASET are necessary and I agree that they expose the public to unnecessary risk.
- Techs should be working under Professional Engineers and they already have too much latitude to work independently.
- Public safety.
- I'm concerned that public safety will be impacted negatively if ASET get's what they are proposing.

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- I fully support APEGA's position. The proposals put forward by ASET will cause confusion in the industry and ultimately reduce the level of public safety, which is completely unacceptable.
- Given the education, experience and vetting requirements for P.Eng.'s to practice I feel it is important for the public and industry to maintain a high level of standards to protect public safety and provide appropriate problem solving principles. I do not believe that all C.E.T.'s or P.Tech.s are capable of providing the equivalent degree problem solving or employment of learned standards and best management practises without actual accounting for their experience and being vetted jointly through the Joint Board of Examiners.
- Same as before.
- I completely agree with the examples that have been stated.
- Public safety concerns
- protection of public safety
- P.Tech. mobility issue argument is invalid. APEGA's argument of not making P.L. Eng the same as P.Tech. is invalid as it could easily be made changing the applicant process and a transition for existing members. CET's regulations is simply misunderstood. For example if we are in the dental field (which also has public safety requirements) they require that all dental assistants (RDA's) which you could state are similar to CET's for comparison be registered or they cannot practice in Alberta. RDH's (Registered Dental Hygienists) also have this requirement for public safety. APEGA is actually doing the public harm by not regulating CET's as non-certified technologists are practicing without any legal repercussions.
- I believe revising the CET scope of practice as proposed by ASET severely jeopardizes public safety and may be irrevocably detrimental to the practice of not only Engineers and Geoscientists but Technologists as well. I believe this action and its consequences will eventually erode public trust in APEGA and ASET to self regulate and the integrity and meaning of the profession as a whole. I also believe that if a CET wishes to expand their responsibility and practice, there is adequate and fair process for them to do so by applying to be a P. Tech and then to be a PL. I do not see any reason for a change in scope of practice of CETs.
- I agree that CET's should not have an independent scope of work. But I also agree that the P.Tech designation should be expanded as proposed.
- Protecting the public safety is paramount.
- If an occupational definition of a technologist is all ASET is looking for, I think there should be no issue in granting this. However, granting P.Techs

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the same scope of Practice as P.Eng/P.Geos with ASET fully regulating P.Techs is not in the interest of the public. However, it seems to me that there may be misunderstandings from both sides.

- Oversight through a single body is required
- Again, after two years you can be a CET, leave the system as is, so ones with drive and the ability are able to excel as PL or PTech
- APEGA and ASET seem to be locked in a dispute where the concerns are not being properly addressed by either party. I'm not sure of the details of the process that have arrived at this point, but the fact that it has spilled beyond discussions between the two organizations out to the general membership reflects poorly on both APEGA and ASET.
- The main reason is to hold paramount the public safety, hence, the need for the work to be authenticated by a Professional Member who has the education and experience, and be accountable to take responsibility for the work.
- some engineers should have a tighter scope. CET's should not be able to stamp anything
- Why shouldn't they have the requisite scope if they have the experience and pass the requisite tests.
- I don't feel that there should be 2 regulators, and feel that APEGA is in the best position to regulate the engineering and geology fields by virtue of experience. I feel that ASET's moves are detrimental to the industry, are a result of a lack of clarity on the file, and will lead to further confusion with the public. I honestly think that the current legislation and situation with P.Tech is confusing and needs more oversight from APEGA - particularly around choosing and monitoring scopes of practice engaged by P. Techs to ensure they are not overstepping.
- Same as Above
- I agree that APEGA should be involved in the regulation of P.Tech's. I agree that becoming a P.L. is a good route for P.Tech's to advance their careers. I disagree only on the independant scope of practise for CET. I understand the concern that a CET would not know what does and does not need to be authorized - but I wonder if the definition of a scope of practice be specific enough to limit what does or doesn't need to be authorized.
- I have been practicing engineering for over 25 years, started as a CET, then RET, ultimately applying for my RPT, then PL (Eng.) I agree that simply having a CET is not adequate to practice engineering independent of professional oversight.
- A detailed explanation of my professional opinion on this subject matter was explained earlier.

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- The profession of engineering is complex and easy to underestimate.
- It does not make sense to increase the abilities associated with a title without also increasing the requirements for that title, especially when there is already an existing pathway for gaining new abilities
- Please see previous answer and repeat here.
- I only do not fully agree as I have not reviewed the ASET proposals in complete detail and heard their argument in full.
- The practice of engineering shall be restricted to Professional Engineers as in the rest of the country. No confusion.
- Not acceptable risk to take
- This amounts to two parties with irreconcilable differences and are headed for a divorce. I simply don't get why it's taking so long to become official. Unless APEGA lets go of their perceived authority over a group of non-engineers, this will not end well for the public or their perception of this profession. I see the public on the side of ASET in general terms.
- as noted previously
- Clear is clear
- Apega's arguments are very legitimate as ASET's proposals seem to try to make it easier for technologies to expand their scope of work without any significant improvement of their competencies, extremely dangerous proposal
- Public safety
- Agree wholeheartedly that ASET member should adhere to a limited scope.
- The ACT must be defended with public safety and public interest superseding all others
- The current way of doing it is fair and understandable. There are concerns to the safety of the public and I agree with them.
- Safety
- I agree with APEGA's position in respect of risk to the public and environment if ASET's proposal was approved as is.
- APEGA's position upholds the laudable and correct purpose of the original act in the first place. Distributing authority to broader levels and broader set of categorizations will add confusion certainly with the public but also within the professions and is not appropriate.
- I am fully in agreement with APEGA's positions

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- I agree that codes provide a foundation for common engineering problems, but that higher expertise is required when dealing with complex problems.
- APEGA's position is 100% correct in protecting the public.
- I have both the Technology Diploma and an Engineering Degree and there is a difference primarily in the application of knowledge vs. development of solutions
- safety of general public
- I understand that public safety is the most important factor and I agree with APEGA's viewpoint on what ASETs proposed changes would do to risk and public confidence in engineering.
- Some ASET boards\councils will never be happy until they are completely independent of APEGA. Our argument is sound. The ASET argument plays up to the usual "this will help marginalized people etc." If someone wants to be an Engineer there is a way... 4 years university + 4 years experience.
- See written response above.
- They need to stop ASET from harming themselves and the public.
- I am concerned that the scope of practice for Technologists that is recommended by ASET is entirely too similar to the definition of the practice of engineering currently contained in the Engineering and Geoscience Professions Act. I am concerned that this may cause confusion and a lack of clarity in the development and approval requirements of the various works for which APEGA professional members have responsibility. In turn, I feel that this confusion could lead to real world safety implications should an individual who is not fully competent, by virtue of education and experience, to make those development and approval decisions.
- As stated by APEGA, public safety is of grave concern. I work and have worked with many CET's. We had a high level of respect for their capabilities in the companies but I can objectively state that none of them had the education or experience required to make the judgment calls required of a responsible Professional Engineer. I have worked through multiple codes (structural steel, electrical, pressure vessel, lifting, fall arrest, etc.) and absolutely none of them are straight forward and easily to apply. On a regular basis even seasoned engineers have heated discussion about the application of various parts of codes. They are in no way a hand book and they were not designed as such. A CET has a method of gaining the ability to work independently already, that is a P-Tech. Consider an EIT finishing his second year of experience and then expecting to work independently! That is even slightly more reasonable than what ASET is proposing. Looking back to my second year, I can not fathom the idea as a rational one.

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- I agree with the response, very well composed and thought out. (Personally I may have been firmer) to answer the question; Protection of the public and an expected standard of performance at the highest logical level has to be maintained, its a societal obligation. Consistency and clarity need to be maintained also. I've never heard it said that less oversight result in better, safer results...if it's an issue invest and get to the desired level.
- Education level of technologists
- Allowing individuals without required education and competency unfettered authority to practice is definitely a cause for concern
- AGEGA's position is reasonable and well thought out. It gives ASET members ample opportunity to advance their careers if they are willing to further their skills and experience. They could go on to become professional engineers or geologists if they advance their education and experience if they so desire. APEGA's position seems very reasonable for ASET members and provides the protection required for the public.
- I agree with APEGA's position
- Public safety is a MAJOR concern let alone the fact that to become a professional engineer the academic requirements far exceed those of a technologist. The experience requirements are more stringent as well (i think).
- Public safety.
- 100% support APEGA's view
- APEGA's position is in the public's best interest.
- I went through SAIT and worked as a technologist prior to BSc PEng. I understand the hugely inferior technolohist's training and thus the risk to public safety.
- 1. Safety of the public is the most important thing. It must not be compromised, or innocent people will be killed. 2. As I have heard many engineers say over the years, if a technologist wants to practice professional engineering, then they should become a professional engineer. If they are unable to become a professional engineer, then they shouldn't be allowed to practice professional engineering, because they don't have what it takes, the problem solving ability, to be a professional engineer, no matter how big their ego is. Giving ASET members the scope of professional engineers is not the answer. These people should quit whining about limited scope. If they want more scope of practice, become professional engineers who have more scope. Giving people more scope, who don't have the ability to do it safely, will kill innocent people. Note: I think my use of the term "engineers" here, probably applies equally to geoscientists, however I don't have direct experience with geoscientists on this.

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- In order to ensure proper regulation of engineering professionals, a single association is required. The public will not easily be able to determine the differences in qualifications and this will ultimately cause a degradation of the public's trust in the whole profession.
- Apega's position is reasonable, allowing opportunities for Aset members to practise where and when their background and training make it possible.
- Public Safety
- My expectation of the professional services provided by those regulated by APEGA or ASET is very high. Primarily due to public safety, but also since my 20+ years of engineering experience has time and again demonstrated that one clear litmus test for uncompromising safe design is high expectations on education and monitored experience.
- Technicians are not academically qualified to do unsupervised work at engineering level or even close. APEGA has to maintain international standards of competency.
- technologists do not have the necessary training to operate independently.
- I fully agree that a C.E.T should not have an independant scope of practice. When I received my CET I don't feel that I had the necessary experience to practice independantly.
- As previously, the society cannot be put at risk.
- There is a path forward for CET's now...nothing more is required...
- Over the years, CET's have argued through ASET that they learn through on the job training and become as skilled and experienced as engineers and geologists. The key word is "may". As noted in the APEGA written submission, the ASET changes would assume CET designations will get an ability to sign off on complex, multi stakeholder projects. This is not a given, it is a possible outcome whereas the engineering and geologist training and career path with regulatory requirements ensures all people in this category meet this outcome.
- Safety is paramount and shouldn't be compromised
- Public safety and level of professional responsibility
- Public lack of clarity re different roles
- Following codes without engineering discretion is not responsible.
- Protection of the title. Not Public Safety as I believe this to be a shame perpetuated by APEGA to justify its own existence.
- They don't have the necessary education and training required

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- I have followed this discussion over the years and I fully agree with APEGA's discussion and conclusions. The inclusion of ASET members in APEGA is the same as the progression of a new engineer from an EIT through to a P.Eng, based on training and experience.
- I agree in principle that, if there is no longer a firm distinction in work scope between technologists and engineers, this undermines the purpose of APEGA in regulating engineers. However, I also recognize that in practical reality, this has already occurred to some degree and it is perhaps only a question of whether it is officially recognized.
- I have completed both a NAIT tech. diploma program and a UofA engineering degree. Saying that a tech is capable of the same critical and technical skills as an engineer is dead wrong and I believe we have given over too much already to ASET recognition already. We shouldn't have accepted where we are at today with this argument and thus disagree with the path already traveled. Lo and behold the techs now think they are equal to engineers. Surprise. We allowed this to happen. If you want to act as an engineer than go through only 4 years of school and get there the right way. I strongly believe that most tech grads could not get into the engineering program never mind complete it. Field/office experience alone isn't enough to make a person a deeper critical thinker/problem solver and that puts someone's life at risk.
- I fully agree with APEGAs stance on this issue.
- Because I am a professional member of APEGA, and it's simply my duty.
- See my comments ob previous section
- There should be no changes whatsoever. Perhaps the insurance industry, that provides coverage for professional services, should be consulted and its input be required reading to those who advocate this nonsense.
- I agree with APEGA - ASET's proposal is oversimplified; I agree with APEGA that codes and standards are not as simple (nor provide "authentication", as noted by ASET) as noted.
- Integrity demands defined and rigorous acceptance of clear statements of technical knowledge and competence in practice for effectiveness, public safety and acceptance.
- The experience required to attain the Technologist designation is not sufficient to gain the required perspective and understanding to safely perform Engineering work.
- If APEGA practiced what they preached, I would be in 100% agreement, but sadly, APEGA doesn't...public domain legal literature clearly documents engineering negligence by APEGA members and NOTHING is done...google 2017 ABQB 106 (CanLII)

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- Ability to take responsibility with regards to safety and necessary knowledge of a design and engineering nature.
- Too many technologists represent themselves as engineers or geoscientists when they are not.
- Protection of the public.
- Protection of public safety and interest. ASET proposal increases risk.
- Public safety is the most important part of APEGA's regulations and protecting the public is of more importance than allowing C.E.T.'s a larger scope of practice and self governance. quoted from the article (<https://www.apega.ca/news/aset-response-protecting-the-public>) Accessed 2017- 11-22 "Most disturbing to APEGA is ASET's view that work within codes and standards and applying established and accepted principles is work that anyone can do without the work being authenticated by a licensed professional. Mr. Cavanaugh states that codes and standards are themselves authenticated, thus requiring no additional authentication by a Professional Member. If this were correct, anyone from the public could alter or design a pressure vessel or design the wiring system for an office building without oversight or taking responsibility for the work." I agree on APEGA's stance and find Mr. Cavanaugh's opinion on codes and standards to be abhorrent and a blatant disregard for the safety of the public, and a misunderstanding of the purpose of these codes and standards.
- The risk to public safety and the introduction of multiple regulators are my most significant concerns.
- Public safety
- C.E.T. while competent and important to engineering teams do not have the level of decision making, complex problem solving and review that Engineers have been subject to through education and level of experienced review
- In my view APEGA has been a leader in Canada in recognition of the important role and contribution of Technicians/Technologists. Realistic pathways for advancement have been already jointly provided between the two associations.
- The existing arrangement with APEGA is perfect.
- Understanding the differences required for independent scope
- Public safety above all else.
- My engineering registration was achieved through the hard work to pass the requirements through examination. It is unjust that a second path exists for people who are unwilling to undergo the education of the fundamentals of science and math. In law they have the bar exam if there was a similar requirement then perhaps it can be illustrated that a person has done the equivalent education as an professional engineer.

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- It is clear to me that the safety of the public is paramount and sound engineering experience is needed to apply engineering codes responsibly.
- independent scope of practice for CET's
- This is a question of the technologists not being able to understand that they are not qualified - they don't know what they don't know. The public interest and safety are at stake.
- I believe that clarity in regulation, a unified body on regulation, and protection of the public safety are of paramount importance.
- Scope of practice for non-professionals must be defined.
- APEGA's position provides a more thorough analysis, addresses public safety concerns, compares against other jurisdictions, etc. Further, ASET does not adequately identify the 'harm' it is seeking to correct through legislative change. Overall, I accept the APEGA position completely, particularly since it also proposed acceptable compromises/alternatives.
- knowledge & understanding concern with unqualified practice path already exists for CET to move up to professional practice
- Public safety must be paramount.
- Risk & Safety
- I have over 27 years of experience and have seen our professionalism eroded in the industry. I am concerned for the Engineering Profession in the eyes of the public.
- The ASET statement on codes and standards is a direct demonstration that they do not have the proper understanding of these items to wield them in industry.
- APEGA won't have choice
- public safety
- Same as above.
- The roles of ASET and APEGA have always been clear. Given differences in education, job function, responsibilities, professional development and experience, I fail to see how ASET can argue for equity.
- I have followed this issue since the 1970s. After each iteration with ASET they perpetually continue to go back to the Government of Alberta for more. I am convinced it will not stop after this iteration either. Unfortunately, after listening to ASET's arguments for 40 years I am convinced that APEGA's position leading to registration to practice Engineering and Geoscience in Alberta should be only through a four year degree with adequate experience.

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- These are the same issues which were negotiated and approved the last time and APEGA and ASET thought the whole matter was closed. However, Barry Cavanaugh did not and in fact published an editorial in the very first ASET newsletter, after the agreement had been approved, criticizing it. He is still beating the same drum and has finally managed to convince an ASET Council that his view is the correct one.
- APEGA's proposal and documentation focuses too much on the ability of CETs to expand their scope of practice without going through the prescribed requirements. As an Engineer if I wanted to change my practice to another profession then I would have to go and get the education relevant to that profession and meet the experience requirements of that profession. Technologists have been trained in a different profession than Professionals. It both may be engineering or geoscience but it is not to be a professional. There is a path forward it is called going back to school and getting the appropriate education.
- It is completely unethical to undermine our commitment to public safety.
- The concept of "Engineering Judgement". Technologists are only trained in a narrow scope technically, and do not have the varied training engineers receive to enable them to exercise "engineering judgement" on areas beyond this scope.
- The practice of engineering is not easy. It has taken me many years to develop an understanding what is needed to truly be a good engineer. Some of the fundamental principles are of the utmost importance when applying published codes and standards. In no way can codes and/or standards be considered authenticated due to the nature of how they are developed.
- Keeps public safety paramount
- Public safety and elimination of potential public confusion on who is allowed to authenticate designs.
- See previous comment
- Public safety
- Public safety
- APEGA recognizes the need for necessary education and experience to analyze complex problems and therefore provide a suitable engineering solution
- APEGA protect public safety. Why we need P.Eng.?
- I have practiced professionally for about 13 years and I rely on both my work experience and still also rely on my engineering degree experience to safely execute my practice of engineering. I could not have done so without either

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of these prerequisites, even within a single discipline of engineering. The prerequisite education for ASET members is not nearly as rigorous and the experience gained on the job is often far more limited in scope than an EIT's, even within a single discipline. I believe that although it may be possible to one day compensate for these shortcomings, that hasn't occurred and because I still rely on so much of both my educational background and my experience to make sound judgement in my work, I can't see how others could do so without the same (or better) basis for their decision making.

- APEGA's position strongly reflects my own. The proposal from ASET fails to provide sufficient justification for the changes.
- I agree to keep ASET in check.
- ASET member are not excluded from seeking independent practice. This appears to be a watering down of qualifications for the self interest of their members.
- I agree completely with APEGA's position. I rated my agreement as a 9, as I always keep an open mind for other perspectives, and am willing to be convinced to change my mind, given sound evidence and reasoning.
- I agree with APEGA's educational/experience requirements for practice, as well as the logic behind APEGA's role as regulator of the Engineering profession
- Assumptions made by APEGA in their justifications for opposition regarding the level of competency of technologists and their ability to assess and operate within existing codes and standards safely.
- Fully understand the need for Apega to regulate scope of practice.
- After reading all of the attached materials I can now understand how APEGA see's this as a public safety issue and how ASET already has a process in place for their members to receive a scope of work.
- People safety and being responsible
- It was clearly presented in the video in which I agreed completely with the APEGA's stand.
- There are many reasons Engineers why are licensed - it represents in part the extra education and experience Engineers had undertaken in our careers to acquire our licenses. APEGA must tirelessly protect the engineering license. For any engineering technologist organization to attempt to undercut licensed engineers could be ample reason to remove the engineering technologist designation and have work only completed by licensed engineers - period (i.e. rather than the reverse, which is what the engineering technologist firm appears to be implying). I believe it is paramount to protect the value of the

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What is the most important reason for the ranking you provided in terms of your level of agreement with APEGA's position on the ASET proposals?

engineer license so that licensed engineers are the ones being offered the best well-paid positions, not technologists who are not equal to licensed engineers. If engineering technologists do not respect the extra privileges rightfully bestowed upon licensed engineers, let those technologists go through the education and experience to become a licensed engineer and see if and how they make out. APEGA should fight ASET hard even to the point of ASET's eventual extinction.

- The public perception of APEGA is not good overall. We are often seen as arrogant and overstating our value to the public. To continually say we are the only ones who can sign-off on certain projects is becoming old, very self serving, and quite pathetic to be honest. Instead of fighting every proposal from other professional societies, it's time to loose the "we are better than them" attitude and become a partner and not an opponent.
- I agree with APEGA's assessment of the increase to public risk with ASET's proposals.
- The educational experience of an engineer is wholly different from a technologist, particularly when considering problem solving outside of established procedures.
- Independent regulators would probably make a mess of things.
- I totally agree with APEGA's concern to public safety
- I started to glaze over at this point.
- Protection of the public well being. I feel regardless of either sides view that the public is better served by being more conservative on any issue where a professions scope in any way could be seen as loosely defined.
- APEGA is correct in denying a scope of practice for CETs. While they have practical knowledge and experience, they may not understand when further authorization is required and may attempt a solution outside of their practice. As well, the current system is effective if they should seek advancement in their career as they can progress to P.Techs and P.Ls which will allow them more freedom to apply their knowledge and be accomplished. However, these Professionals still require joint oversight between APEGA and ASET to be effectively regulated and ensure that the scope of practice is well defined and applicable to their field of expertise. I do not believe that 2 years education and 2 years experience allows a CET to implement solutions without oversight from a Professional as it will inevitably lead to public risk.
- Public safety and the importance of professional oversight.
- Public safety cannot be compromised by removing regulatory authority over CET's from APEGA, or by increasing their scope of practice without the required experience.

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What is the most important reason for the ranking you provided in terms of your level of agreement with APEGA's position on the ASET proposals?

- I feel APEGA is over stepping.
- Protection of public safety. There has to be a level of education and proven experience before responsibilities are given to individuals to solve complex problems especially where public safety is concerned. Failure to do that would be lack of due diligence on the engineering profession.
- I think that ASET should have a scope defined and that APEGA is wrong in this aspect. In my experience there are very clear boundaries where each profession is legally allowed to work. Those boundaries should be formalized and updated to reflect the current state of practice.
- I believe if you continue to expand the number of members who can practice independently, under their own scope of work, it becomes more difficult to regulate.
- Its very simple - If you are not an Engineer - YOU ARE NOT AN ENGINEER!!!!
- Not 10/10 because it may be making some unfair claims about technologist competency. Focus on the fact that there is already pathways for those who wish to practice engineering via p.tech and licensee designations. No need to change this
- APEGA's certified professional Engineers are responsible member for public safety by providing Engineering services. APEGA requires four year Canadian standard university undergraduate and four year varifiable expereince as minimum to get P.Eng. Based on my expereince working in Canada, it is not easy to work and maintain professional guidelines contineously , I have passed through several challanges during my career as an Engineer. Having and keeping P.Eng. liscence is a very valuable designation for me.
- There are obvious differences in the competencies of technologists and engineers in my work place. I agree with APEGAs views
- Today, the level of detail required for safe and efficient designs requires hands on experience. An average C.E.T has huge advantage in field experience than an average P.Eng.
- The excerpt from the ASME document is an excellent statement that I really embrace.
- APEGA has the legal obligation to protect the public interest, which it has clearly argued for in its respectful communications with ASET and the Government, and ASET's motivations and arguments for change completely miss in finding my support for their presented "problem" and change request. While some politically minded individuals may suggest placing an additional independent steering system in a vehicle to permit more than one occupant to be identified as a driver, all recognizable outcomes of such an implementation erode the effective functionality expected by definition of a vehicle.

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What is the most important reason for the ranking you provided in terms of your level of agreement with APEGA's position on the ASET proposals?

- Boundaries need to be set. You don't get to have an unlimited scope of work unless you can prove it via required education and work experience.
- I agree CET are a valued members and their work is important but I also agree that the Public Safety is most important and it is on APEGA's mandate to protect the public.
- It is safe, logical, and reasonable.
- APEGA's position is probably the one its members would want. But honestly, this whole thing looks like an elbow contest among competing protectionists. We might think that "protection of the public" gives us the moral high ground, but it only works as long as the public believes that motivation to be authentic. You get into a fight like this, and a lot of people start seeing naked emperors. You need to get with ASET and convince them that you both have a lot to lose.
- More information from a non-involved source would help.
- APEGA is correct in arguing that an independent scope of practice, as proposed by ASET, is not in public's best interest and cannot be supported.
- In full agreement with this in that APEGA is the regulatory body for Engineers. ASET should regulate technologists and should most definitely oversee any P.Tech activities as it could have an impact to the public.
- Public safety, which is more important than ASET's quest for status.
- I hold R.E.T. membership with ASET and PL Eng with APEGA. I was the technologist that wanted to grow beyond that level. The PL option is a great venue for that. There are technologists that are brilliant and need this path to grow; however like in many things there are others that can only operate at the less complex levels of a technologist. These people should be recognized under the act but not given independent practice rights. I'm concerned with ASET's desire to self-regulate without APEGA. This combined with independent practice rights could lead to inconsistency in the practice of Engineering. All technologists should be required to be registered and held to ethics and codes of conduct; they are part of the engineering function. P.Tech should be eliminated. This is a useless designation. ASET should be absorbed by APEGA. One association to regulate all technologists and engineers under one act.
- Safety
- In my opinion, APEGA's concerns to public safety are justified.
- As stated previously
- Based on APEGA's documents and video presentation.

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What is the most important reason for the ranking you provided in terms of your level of agreement with APEGA's position on the ASET proposals?

- I am fairly neutral on this. I have no issue with APEGA being involved in the P.Tech process, however I feel that APEGA discriminates against Technologists in the process and makes it easier for a Engineer who is lacking design experience to get a P.Eng while making it extremely difficult for Technologists with extensive design experience to be designated. I also believe when practicing basic engineering principles the extra theoretical knowledge that engineers get in university provides no advantage to public safety over a Technologist
- Public safety
- to protect public and their trust in Professionals member of APEGA
- Again Apega as an organisation has failed to live up to public expectations
- ASET and CET and P Techs do not have the sufficient background to fulfill the scope of practice performed by APEGA and it's licensed members - ASET's proposal will increase public risk and reduce safety.
- I'm disappointed by my associations (ASET) perspective on these matters. I wholeheartedly agree with APEGA's positions. I'm particularly concerned about ASET's proposition #3 to allow CET's to work independently of a professional. This is unacceptable to me.
- I think APEGA has it right. They have a limited professional practice (can't recall the exact name of the top of my head) that gives technologists an avenue for development. I really don't see what the fuss is all about. Now if there wasn't pathway then I could see the argument.
- While I support APEGA's position, I feel that a more suitable and permanent solution would be the merger of ASET and APEGA in a similar manner to that recently undertaken by the Professional Foresters and Forestry Technologists.
- Some statements made are understandable but I do believe some CET's should be allowed to work in a defined scope independently (similar to a P.Tech) and that P.Tech's should be P.L.'s
- I have reviewed APEGA's DVD and I am very supportive with APEGA's position, ASET's proposal is adding very much risk to the public safety without any control or oversight from the governing party!
- What ASET wants already exists. Plus they are trying to use substandard qualifications to reach higher levels of responsibility. How is this even being considered?
- All of the reasoning behind APEGA's position is clear, insightful, and logical. The interest to public safety is paramount, and I am fully in favour of ensuring this concept is heavily enforced.

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What is the most important reason for the ranking you provided in terms of your level of agreement with APEGA's position on the ASET proposals?

- I agree with APEGA that individuals should not be given more responsibility than is supported by their training and experience. There is an existing path for individuals to prove that their experience supports more responsibility, and arbitrarily increasing everyone's responsibilities brings forth more risk than I'm comfortable with a citizen.
- As engineers we undergo a stringent education process to do what we do. While technicians have some similar training, it is not equivalent training. Technicians receive complimentary training to what an engineer receives.
- They statements are sound and clear and unambiguous.
- I feel that the P.Tech does not reflect the same education and experience required.
- I would need a full understanding to rate a 10. I have enough personal experience with ASET to rate above 5 regardless of additional information.
- Safety of the public will be highly afflicted by this decision. Un- clear responsibilities and un clear responsibilities to the public will create confusion. and affect trust from the public to who's doing what: Engineers vs technologists.. etc
- Just as we regulate foreign nationals who wish the practice engineering by ensuring they have the education and experience, so we should regulateTechs
- See answer to previous question.
- ASET's proposed legislation change would render APEGA and ASET redundant if they have the same level of responsibility. I don't understand ASET's motivation behind their proposal and how it would improve public safety, industry, or the engineering profession.
- I think you have the issue right but that the presentation you are giving is too confrontational. Saying "We've asked ASET and they haven't responded to us" doesn't come across well.
- APEGA currently has a high standard of roles, responsibilities, and commitment to maintain work & public safety in all industries. APEGA has outlined the risks, and downfalls of ASET's proposals very well, and even with this survey, continue to display competency in process, and commitment to society to review, debate, and make sound decisions. I agree with APEGA's stance and will be keeping a close eye on the results of this for various reasons. ASET's proposals must be reviewed respectively, however the proposals do not seem reasonable within my experience for the reasons outlined by APEGA.
- As what I have mentioned earlier in the previous questions and based on my understanding of these ASET's proposal after attending the first session,

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What is the most important reason for the ranking you provided in terms of your level of agreement with APEGA's position on the ASET proposals?

APEGA's stand with regards to the safety to the public is paramount and to avoid confusion and duplication of regulatory body in the professional practice of engineering and geoscience.

- I was a C.E.T. early in my career prior to becoming a P. Eng. and at no time as a C.E.T. did I feel competent to assume the responsibilities of the P. Eng's that supervised me.
- The Professions of Engineering and Geoscience must continue to be regulated by APEGA.
- Public safety and can only have one governing body
- Public safety.
- ASET's proposal does adequately consider public safety. There are existing paths for individuals to expand their scope of practice by applying for the various existing titles and demonstrating their qualifications.
- Need for APEGA to continue to regulate the practice of Engineering and Geoscience in Alberta and keep interprovincial mobility simple
- I agree with the requirement of APEGA based on years of education differences, and responsibility to public safety.
- I agree about not giving CETs more power, and it doesn't make sense to have two separate regulators. However, the biggest change I understand for PTechs is a potential labour mobility issue, which I don't understand.
- I agreed with the concerns APEGA brought forward. I agree that changing the scope is a safety concern and that the responsibility of following codes and established practice compared to applying knowledge to new situations.
- The path to Licensed Professional will maintain a high level of public Safety. Asset's proposal seems to seek to lower the bar on the standard applied to a professional. It would also lower the bar on the overall accepted standard for Public Safety in all its application.
- I have first hand experience where a P.Tech. submitted documents (in my opinion engineering recommendations) without proper authentication. It is inconvenient that two associations exist, but review of P.Tech. and other technician designations should be a shared responsibility between APEGA and ASET.
- Although I agree with APEGA's position, I have concerns with APEGA's approach. The information session seemed focused on why ASET's position was wrong rather than seeking to understand why they created their proposed changes.
- Similar to first answer (asking me to choose sides with only 1/2* the info)

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What is the most important reason for the ranking you provided in terms of your level of agreement with APEGA's position on the ASET proposals?

- I supervise 9 technologists and I think the current relationship between engineer and technologist is adequate. Technologists that reach a level of competency can pursue P.L (eng) so they have a path to higher credential. The PL(eng) is able to authenticate drawings in their discipline which makes that professional able to do the same things a P.Eng can do from that perspective. I think it's only appropriate to have one regulating body for professional engineering professionals. I'm not sure what problem ASET is trying to fix.
- Protecting the public
- Since APEGA misrepresents teh ASET request I can not agree with it in any way
- A technologist can become an engineer under the current model, with a bit more education, if that is the career they wish to pursue. We are watering down the profession and should rather be encouraging consultants and companies to reinforce with and train junior and intermediate engineers. Already too much work is abdicated to technologists.
- I agree
- Basically I disagree with ASET idea of Technologist working on his own, not assuming full responsibility I do believe the PTech category is a good opportunity for some Technologist to get higher professional development, but it shouldn't be allowed to everyone
- I would like to have a more in depth understanding on both side argument.
- Belief that APEGA's primary concern is the safety of the public
- There is no need to change.
- It is difficult enough for an EIT to obtain broad experience today, very few technologists ever get to explore the application of theoretical principles.
- Maintain value of P.Eng title.
- There are currently too many designations which is confusing to both the public and industry. So we need less designations to simplify this and make a better system. Also we should not have any engineers with less than a 4 year degree.
- When first hearing about the proposal I had similar thoughts and concerns so I'm in agreement with APEGA.
- I agree with APEGA's concerns, and have expressed the same concerns based on reading the proposals.
- The ability to practice engineering and geosciences using first principles by a P.Eng. or P.L. Eng. (within limited scope) distinguishes APEGA from ASET which is limited to the application of existing codes and standards (P.Tech

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What is the most important reason for the ranking you provided in terms of your level of agreement with APEGA's position on the ASET proposals?

(Eng.)). The role of C.E.T.'s would have to be restricted even further as they could only practice under the scope of practice of a P.Tech(Eng.) or a P.Eng's area of competency.

- Public interest is the most important and we need to work together to preventing any potential harm or damage.
- Although APEGA's position is grounded in the "public safety" logic, it actually seems that there is a disrespect for the level of training and competence of Technologists. The APEGA position seems more about protecting engineers from technologists than it seems to be about protecting the public.
- As stated there is a risk to the public.
- I support
- You either keep the P.L.(Eng/Geo) members or you don't. ASET's position was in direct response to APEGA's published desire to cast off the P.L.(Eng/Geo) ranks to ASET. This issue is of APEGA's making.
- Unless ASET can demonstrate that its proposal will result in an increase in public safety, then I think APEGA's position is correct.
- In some instances, I agree, but in others, I have to admit that I do not have sufficient information to make a decision. Overall, I sense that APEGA is taking a protectionist view toward this topic. I think that APEGA is scared to give up any scope of engineering or Geoscience. I also think that APEGA feels threatened by the potential to lose its monopoly as the provincial regulator for Engineering and Geoscience. APEGA has a history of difficulty fulfilling its regulatory role, and right now, ASET is proposing that it could step in and fill some of that space.
- Scopes of PTechs require oversight. No question.
- As mentioned previously.
- Beside the arguments listed in the APEGA response, I am concerned about the overall collapse of status of engineering profession in Alberta. As a result of the current agreement with ASET and creation of foreign licensee title, reality in many engineering companies is that there is no difference between scope of work done by P.Eng. and P.Tech. In many situation, individuals performing duties of project engineers are not even APEGA members.
- The public would not know the difference between the Engineer and the Technologist and this would lower the standards or quality of engineering services rendered
- Good rationale.
- I am also fully concerned with the public's safety due to changes in scope of any professional practicing in Alberta.

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What is the most important reason for the ranking you provided in terms of your level of agreement with APEGA's position on the ASET proposals?

- My qualifications were heavily scrutinized and my scope of practice was greatly considered before I was deemed competent. The only way to do it is on a case-by-case review basis with technologists to ensure public is not unnecessarily put at risk
- I think that there could/ should be a simple mechanism for a review and potential expansion of scope for a P.Tech. This could help some higher capability personnel to grow their independence into P.L. status.
- Public safety is paramount, and introducing these changes clearly introduces substantial risk to public safety. There are many other reasons to agree with APEGA but of course this is the most important.
- APEGA cannot be neither look as opposite to any change.
- APEGA has been successful in self governed engineering. The changes will jeopardize the public safety.
- Concern about the risk of public safety.
- Protect the public.
- I believe there is substantial risk to the public, especially if ASET members were to effectively become "sole practitioners".
- ASET should never be allowed to have an independent regulatory power.
- I agree with APEGA's point: - This is a public safety issue and is not in the best public interest. - Technologists already have a path to independent and accountable practice. - Engineering and geoscience are fundamentally different than the health professions, which were used as examples by ASET. - No other province or territory provides a scope of practice such as that being proposed by ASET. - Several of the statements in ASET proposal were not accurate. - Joint ASET and APEGA boards for the regulation of P.Tech's are essential and provide the best path to protecting public interest.
- I think the public is at risk with ASET's proposal.
- Apega has to ensure public safety, so we need to make sure qualified people are doing engineering. Anyone that wants to increase their scope has ways to do it. There should be no increase of scope or responsibility unless individuals prove their competence. No shortcuts! I have met lots of people who want to perform engineering but "don't want to bother" getting a PEng designation. Dangerous! Everyone needs to meet the same strict standards so we keep AB safe for our kids.
- The level of competence displayed by many of our engineers is pathetically low. From my experience, the average Alberta tech is better suited to solve problems than the average Alberta engineer.

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What is the most important reason for the ranking you provided in terms of your level of agreement with APEGA's position on the ASET proposals?

- They need to let ASET have a chance
- I have read/watched the provided resources and understand APEGA's concerns and agree with them.
- I read the documentation and agree with APEGA's stance on all issues discussed.
- The ASET proposed changes will create ambiguity in terms of accountability for the practice of engineering and geoscience.
- Public Safety
- I do not think the ASET proposal is in the best interest of public safety. The idea of authority without accountability is the largest issue, to me.
- I sure they will make the right decision
- The risk of expanding the scope of practice for P.Tech.'s and C.E.T.'s is too high. There already exists ways for technologists to expand their scope/ responsibilities through experience. Removing the experience requirements increases the risk to public safety, and provides no benefit.
- ASET's proposal decreases public safety and increases risks to the public.
- Public Safety will be jeopardized.
- After reviewing all of the info, I am completely opposed to the proposals.
- I do not think that ASET will bring value to the industry by becoming its own regulator.
- I agree with the public safety argument and maintaining APEGA oversight due to our legislated responsibility. Path to license is available. Need for change not clear.
- Public safety.
- The only way that technologists will be prepared to handle the scope of practice that ASET is proposing, is if they have the education and experience of an APEGA member. The complexity of problems beyond common routines requires a strong foundation provided by a full 4 year degree at a recognized institution. This foundation provides a richer, more complete framework that adds richness to the professional experience that follows graduation. Additionally, 4 year degree programs train a level of high performance and self-discipline that better prepare graduates for the responsibilities of authenticating work.
- Public safety and consistency.
- Public safety issue resulting from confusion by the public and a lack of APEGA oversight

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What is the most important reason for the ranking you provided in terms of your level of agreement with APEGA's position on the ASET proposals?

- This is a serious matter and apega is doing what needs to be done to continue to be in alignment with other provinces
- I agree that it is best to protect public safety
- I concur with all of the issues which were presented at the APEGA information session.
- The public good and the practice of engineering are the most important considerations when looking at the ASET proposal.
- I completely agree with APEGA, there are potential risks to public safety and enforcement
- Public safety and responsibility of APEGA members
- I believe that ASET's position will cause the public to be confused when seeking professional services and may increase the risk to the public.
- As a self-regulated profession, it is imperative to uphold high standards of self-regulation to ensure the safety of the public
- safety of the public
- I understand what APEGA's concerns are, but once again with out hearing why ASET has made these proposals or completely understanding them I feel ill informed. To agree with APEGA's position while I am ill informed would be unethical.
- For the most part I agree with APEGA however I think that P.L. and P.Tech. should be able to have the same scope of practice and I disagree with APEGA's response on this topic.
- APEGA has provided clear & concise information related to APEGA's position.
- There needs to be a clear differentiation and a simple single system for licensing and scopes of practice. Differentiation between PENG/PL/PTech needs to be clear and material, and needs to be in line with the roles and responsibilities defined within legislation and the public perception.
- I believe the ASET proposal will lead to confusion, which could introduce un-necessary risk to the public.
- The introduction of risk is clear in ASET's submission
- In my experience professional technologists look at problems differently, they offer a different skill set. Beyond the P Tech designation the other avenue open to CET's if they wish to practice engineering is to go back to University. We have several excellent programs in the province, and I know a number of engineers who started in other careers, and went back to school



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What is the most important reason for the ranking you provided in terms of your level of agreement with APEGA's position on the ASET proposals?

to become engineers. In my opinion the bar for becoming a professional engineer should become higher. Not all engineers seem to understand that engineering is an exhausting and tedious process of asking how does this work, how can we make it better, what is likely to go wrong, what might go wrong, and how can we mitigate that

- There needs to be one governing body. When dealing with the public's safety there cannot be two separate governing bodies when dealing with the same subject matter.
- I believe APEGA should align with the majority of jurisdictions in Canada when it comes to roles and responsibilities. To do this, the P.L. and P.Tech. roles should be eliminated.
- Because I feel it will devalue what we bring to the table in terms of service to the public.
- ASET members have not that much academic qualification as well diversified knowledge of experiences. For that reason ASET proposal is nor acceptable.
- it is logical, defendable and fair. it is not biased towards one group
- the ASET proposals would create two regulatory bodies governing the practice of engineering and geoscience in Alberta and would place the public safety at risk
- I have a Diploma and a degree and I know there is a difference in the education and knowledge. For you to do complex engineering job you need a degree which will give you the theoretical knowledge which you can never have in a diploma program.



Please share any additional comments you may have regarding ASET's proposals on changing scopes of practice for technologists.

- Some of this is about money and power for ASET, I believe. They want more members forced under their umbrella and forced into paying dues. Money and power have always been motives in all organizations. Do not think resolution will be created without addressing these 2 items, directly or indirectly.
- The current standard to be a practicing Engineer in Alberta is not particularly strict as is. ASET's proposals would be appropriate if Alberta currently had an abundance of qualified people to perform complex engineering tasks but who did not have the ability to authenticate. If anything, we currently have the opposite issue and more strict requirements to become a P.Eng/P.Geo/P.L should be in place. I believe APEGA should include more strict technical work experience requirements and technical examinations (in addition to the ethics exam) in the process of obtaining a P.Eng. I believe members of ASET should obtain the level of education an Engineer has if they wish to obtain the same abilities to practice, as opposed to simply expecting to be gifted this ability.
- General impression is that ASET's proposal is an indication technologists feel there are too many limitations over their work. More collaboration is needed to address their concerns and find an alternative solution other than just granting autonomy.
- I have worked closely with many capable ASET members including CETs and RETs and agree also with APEGA's assertion that they are absolutely valued and important members of the team.
- Please continue to stand firm on this issue
- Health technologists have a defined scope and are coordinated to ensure safety and responsibility. Although routine drugs may be prescribed, it is the doctors final call to prescribe or not. If a wider scope of practice is desired by technologists they should complete an engineering degree and follow this path. There were some technologists in my engineering class that did this.
- Analogies to health technology by ASET appear to provide convenient support for their position but the scale of risk to the public and the environment is largely out of proportion. It is unreasonable to compare the potential risks posed by the practice of an ultrasound technologist to the potential risks within the practice of engineering and geoscience technology.

Please share any additional comments you may have regarding ASET's proposals on changing scopes of practice for technologists.

- Having had both the CET and PEng designation in my career I feel that although the job scopes of both a CET and PEng can be similar at the start of ones career the CET will usually run into a “glass ceiling” in their practice. I feel that these changes to legislation are a way to get through that limitation without putting in the work. Ideally I would like to see one association governing all engineering related disciplines.
- ASET is looking to provide an alternate path to practice engineering in the province of Alberta. A path that does not require the rigors of a proper engineering degree nor the responsibility associated with being a professional engineer. This is unacceptable. If ASET's members wish to practice engineering there is already an established path to do so.
- Both P.Eng's and CET's work well together. As an experienced CET who manages a team of P.Eng's and P.Geo's, I feel there should be a common ground of granting further practice to Technologists.
- I agree with developing a definition for engineering and geoscience technologists and aligning those definitions with those used elsewhere in Canada. I fully support mandatory registration and PD for technologists. I support ASET having the ability to have disciplinary powers within their defined scope of practice. I do not support any technologist going beyond established scope of practice and codes. I do not support the return of the RET (and new RGT) designation. I do support the P.Tech. designation and independent work within a defined scope of practice at that level.
- As an EIT I was not handed a scope of practice. I will not have a scope of practice until I have shown I have the correct experience. This is done to keep the public safe. Since there are already pathways for people with tech. backgrounds to gain a scope of practice, why should CET be handed a scope of practice without demonstrating they have the appropriate education and experience?
- I believe the whole reason this is happening is because APEGA is successfully pulling ASET members away. I know 3 of my company left ASET for APEGA this year alone, myself included. Further to that some of my guys have been trying to get CET and it has been extremely difficult. It would appear they're struggling. I think ASET has a place in industry but I am not sure they know what it is. Please just remember ASET represents technologists who chose to be members, but may not represent those of us who are technologists but don't share those views.
- There is more than enough room in the tent for ASET members on the basis of the scope of practice they have described. I have worked with many ASET members who have a FAR better grasp of basic engineering principles than those bearing a PEng designation whence my comment about EIT oversight. APEGA and ASET should combine forces rather than engage

Please share any additional comments you may have regarding ASET's proposals on changing scopes of practice for technologists.

in this squabbling on a pretext of protecting the public . Too bad there wasn't a question asking the Membership to rate APEGA's performance on that score

- There are problems with ASET's proposal, but those are very small compared to the problems with APEGA's proposal.
- - ASET is doing this so people with 2 years of education can qualify as "engineers" - currently in the industry, Aset technologists are supervising P.Eng's - why doesn't Apega do there job and not let everyone become engineers? - in the industry, Apega is generally viewed as a joke, Apega fees are ridiculous, Apega doesn't do anything to protect the title of P.Eng. and make it something to be proud of, people know this, that's why you can go to school for 2 years at an easy program and become and "engineer" (same pay, same responsibility as a P.Eng.)
- I find ASET's proposal to be self serving, and not in the best interests of the public.
- Keep up the good fight. I know it must be difficult to go through these topics with all parties. It is a difficult conversation to have with colleagues and friends within the industry. In the end we all have to work together out in the field/office. Some technologist like myself and many others that went through the process of becoming a P.L. are (were) great candidates for that program, others I wouldn't recommend, hence why we need to continue to hold joint review committees. Your doing the right thing and you can share all my commits with my former association ASET if you wish. Practically, they need to understand the risk to the public, not the risk to their membership list.
- I agree with them having a scope of practice
- If they want to practice, take an extra few years of classes and prove they have the capability for deeper learning and understanding, otherwise we are devastating the value of a degree
- There is no short or long term benefit to public safety regarding ASET's proposal on changing scope of practice for technologists. This is a self serving effort by ASET to literally be a parallel regulatory body with APEGA.
- Remove all asset licensing just like all other provinces. This is Bull. Apegga better grow some b---s fast
- Better to work positively together than adversely. You might be taken more seriously.
- In my opinion, ASET is completely wrong in their position. I feel that they are feeling subordinate to APEGA. Their position is not in the best interest of the public.

Please share any additional comments you may have regarding ASET's proposals on changing scopes of practice for technologists.

- We can't allow this issue between APEGA and ASET to force the government to eliminate self regulation. Eliminating self regulation could have even farther reaching consequences to public safety.
- It should not happen!
- As mentioned these are two very different scopes of practice. I have seen over my years Engineers that could not provide the advise that could be well provided by an experienced Technologist. I believe the experience Technologists can provide a very high standard of service within their scope of practice. The education is very important but I would say that the experience attained after is far more important. Both Engineers and Technologists can have very little , or a great deal of experience based on the projects they complete. With that said , I have seen many less experienced Engineers and at the same time I have met many Technologists that I would deem more competent the and inexperienced Engineer. Both Associations need to work better in determining the experience of all applicants.
- I think ASET's proposal poses increased risk to the public and it should not be approved. If they want increased scope and responsibility the individuals should apply for P.L. or go back to school and become an engineer or geologist and then eventually apply for P.Eng./P.Geo.
- Don't let us down by giving into them!
- As I mentioned previously, I fully support APEGA's approach to ASSET's requested changes.
- Please see previous comment. ASET's proposal will reduce the level of public safety.
- Even though I am a member of ASET as a P.Tech. (Eng.), I believe in and support the position of APEGA in the proposed regulatory changes in the best interest public safety and providing competent and reliable solutions to engineering problems and issues.
- No additional comments. I firmly believe in the stance of APEGA. I also believe that APEGA is one of the more progressive organizations and that there is a path that technologists can follow to authenticate their own work, we are not suggesting that there is no path, they simply have to demonstrate it.
- ASET needs to fully and clearly describe the "boundary" they propose
- The path for ASET members in need of scope change in their practice is already clearly laid out and identified. If something is not working for them within that established process or pathway then that sole process has to be reviewed and not create an entirely new system which carries with it a lot of risks.

Please share any additional comments you may have regarding ASET's proposals on changing scopes of practice for technologists.

- If I asked any P.Eng. if he/she would rather work in an industry with technologists whom were mandatory to be registered or continue with a mix of non-registered and registered techs the answer is obvious. Regulated CET's adds a layer of safety and security. The hierarchy is not changing which P.Eng would still oversee these individuals but now they are responsible to be registered and face disciplinary action for their work. CET's would still not be stamping drawings and shouldn't be but they're work will be held accountable which I feel would give the public an extra layer of safety.
- ASET and APEGA have both failed miserably on resolving this issue. Since 1994, come on sort this out as its embarrassing. I believe APEGA is sidestepping some issues brought forward and needs to address this issue direct or risk further PR damages.
- I believe that P.Tech designation should have the exact same power as a P.Eng designation. Based, among other things, on my industry experience that P.Tech designation holders are typically far more safe and qualified then P.Eng holders. I don't appreciate that APEGA has the view 'public safety would be harmed by this change' as I have worked with many P.Eng holders that are by my judgment grosly incompetent, yet APEGA does nothing to thoroughly discipline, or vet these candidates until something serious happens. A P.Tech designation has every ability a P.Eng has to protect the public through interpreting codes and standards.
- Stay the course
- I'm very concerned on this matter, no tech with 2 year education and 2 year experience should be able to sign off any designs without review
- Defining a scope of practice for ASET's members seems like a good idea. The proposed scopes could probably use some well reasoned adjustments generated though consensus building exercises and scenario mapping completed cooperatively by APEGA and ASET.
- APEGA's video is clear, and I agree 100%.
- I believe the P.Tech should be the same as a PL
- I think they should have and independent scope of practice. APEGA has controlled this for too long. Engineers make mistakes as will Tech's. Why are Tech's expected to make more mistakes.
- I think that taking away oversight from CETs & C.Techs will create a significant situation with regards to a lack of oversight, and diminish the professions regulated by the EGP significantly. ASET's proposals remove could lead to removing oversight from potentially 20 000 ASET members and greatly impact self-regulation in the field of engineering. I personally believe ASET has grossly misrepresented the importance of judgement and higher

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education in the roles that professional engineers and geologists perform with regards to their statements regarding codes and standards of practice, and I think it speaks volumes to how they intend to regulate their practices internally.

- I agree with APEGA.
- I fully support and agree with ASET's proposal to change the scope of practice for PROFESSIONAL technologists so that they can work within an independent scope of practice and be treated as equals to their P.Eng. counterparts. It's time to eliminate the current prejudice in our profession and evolve to allow QUALIFIED, ETHICAL, COMPETENT and CAPABLE professional technologists to perform their work without a rope tied around their arms!
- It may be of value to independently solicit the opinion of general members of the public regarding this issue. Inform them appropriately and hear their responses. Should be funded jointly (or by the province) between APEGA and ASET and completed by and independent agency
- Some technologists may well have the experience to do their own work, but there should be a defined process in place to determine this
- I found the literature provided by APEGA in advance of this survey to be lacking a concise and frank summary of what ASET's true goal is with these proposals. I would argue that in efforts to remain politically correct, APEGA is allowing ASET to hide behind a veil of promoting equality and fairness in the profession, when the reality appears to be the promotion of increased job opportunities for ASET members. Although I have limited understanding of the situation, I would argue that APEGA's response may not be strongly worded enough to make clear the true goals of what is being proposed. From the documents provided, ASET's proposal does not appear to be in the interest of advancing the profession of Engineering and Geoscience in Alberta and it should be treated as such.
- I agree with APEGA and feel they have gone above and beyond to assist ASET being the best they can be also.
- CETs have already an important role in the engineering fields. They can advance to P.Tech as described in APEGA's proposal if more responsibility is desired.
- There is a level of Elitism within APEGA that has no place in this issue. ASET is treated like the hired help and it's got to stop. I see this as a fight between two countries for territory. Each side is trying to position the border to increase its area of influence. This is very similar to the nurses and pharmacists wanting more responsibility. In both cases, this should not be seen to diminish the other side. In fact, it should be welcomed and encouraged. I think this whole fight is over elitism and money - to be brutally frank.

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- I concur that the definition proposed is much too similar to our definition and the public will in no way be able to discern between the two. Generally, the engineering performed in Alberta is second to none - based on failures, actual or perceived. Failures typically are caused by a single mistake, on some detail of engineering. It is the details of a design that need the most scrutiny - one that experience and a broader breadth of education bring.
- This will be an ongoing life-long and unpleasant battle between the pliers-in-the-pocket types and engineers. Thus, try to absorb them and take the technicians under the APEGA wing by creating a parallel (and more prestigious) APEGA program for technicians, thus weakening ASET -- at the very least, such an effort will bring them to the negotiation table. I could not readily find the number of ASET members or learn of their funding. Good luck.
- Thanks for bringing this up and in such illustrative way. Apega's point is very valid and its position must continue firm in the best interest of the people of Alberta.
- Not necessary.
- When this thing started, a number of us believed that recognizing ASET was the "thin edge of the Wedge". It seems that we were right. ASET will not stop until they have an independent scope of practice with NO involvement from APEGA
- It seems that ASET is attempting to do an end run on the basic educational requirements to be an P.Eng or P.Geo. There are clear pathways for P.techs. to expand their scope of work and if they want even more scope the clearest path is an 4 yr. degree. Allowing a mere regulatory hop to increased scope does not give the applicant the academic background or years of experience required to be a competent, effective professional.
- X
- The current scope for existing designations has undergone much change over the past ten years. The current designations already provide sufficient pathways for experienced CETs to advance their careers in scopes that they have studied and practiced. The more changes that occur, the less certain the public becomes with who does what. It's time to stop advocating for more change.
- P.Tech. was a bad compromise. I know several C.E.T.'s that went back to school and got their P.Eng. accreditation. They are among our strongest practitioners.
- Keep pursuing this; the ASET proposal could produce a high level of public risk.

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- Although sometimes it seems like APEGA want to “rule the world”, it really is a fair and reasonable way of regulating all job classes within Engineering and Geosciences. I think that APEGA understands the issues very well and the ASET group may not understand them (the issues or APEGA).
- Let's call a spade a spade. Some ASET members, over the years, have lamented about their role, authority and monetary reward, in supporting the execution of engineering principles and practices in the development and implementation of the many and varied projects undertaken in the province. There are many perfectly experienced technologists/technicians performing their work expertly against their supervised scope of work, some needing minimal levels of professional supervision and in recent years recognizing the role of P. Tech. When engineering failure occurs however, it is the responsible P.Eng carrying the can for proper execution of the application of engineering principles and practice, which go well beyond code and specification compliance, and are held accountable to disciplinary censure, legal and civil liability. Capability for taking the related broad spectrum of liabilities requires the disciplined standards set under the APEGA Act and must be sustained to continue development and implementation of sound operating facilities for use by industry and the public at large. Advances in engineering and application achieved through university programs, many with industry support, are not typically available in a timely manner from other educational providers. An experienced engineering technologist/technician has existing pathways to higher levels of responsibilities and roles already in place. These should not now be leveraged to increased responsibility where those broadened roles are not met with the competency required to execute the role and the liabilities that come with it. As I write this, the city of Calgary as just evacuated a manor, housing over 100 residents, due to an alleged structural concern under investigation. Several engineers will looking into this issue and the original design is likely to come under review. I trust the design will be found to be have been sound but such a drastic measure without notice to residents will create liabilities for someone, and likely an engineer will be involved.
- Engineering will = engineering. The public will not be able to differentiate the difference between what someone says they can do, and what they legally allowed to do
- The path for CET's to increase their responsibilities in the scope of engineering is already available through APEGA's policies. A separate path is unnecessary and could be the cause of public confusion and law suites.
- ASET has had a single-minded determination for over twenty-five years to convince the Alberta government that it is possible to define a profession of “technology”. Despite all setbacks, they have continued in this single-minded quest with unabated energy. They will never give up.

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- I want to ensure that engineers retain the public's trust. I worry that allowing broader scope to be done solely by ASET members would make it harder for the public to understand who is responsible/accountable in case of unforeseen events.
- I fully support APEGA's position and urge all APEGA members to do so. ASET's proposal is not reasonable and will jeopardize the protecting of public.
- I think ASET and APEGA need to merge to be a APEGTA type organization and focus more on maturing technologist and non-Canadian trained technical workforce members the competing. My personal experience transitioning from a Technologist to an Engineer was that both APEGA and the University of Alberta were FAR too proud, arrogant and bureaucratic to truly focused on supporting the workforce members trying to develop and get accreditation.
- ASET proposal gives too much authority to people who do not have enough valid education
- ASET council will never be happy. Propose to incorporate ASET into APEGA
- I believe APEGA's position continues to be clear and fair, and represent the best interests of the public. I very much agree with the Professional Technologist designation as a means of allowing technologists to broaden their scope and marketability. However, I could never support blurring the lines between professional engineers and technologists the way ASET continuously seeks to do. It is unbecoming to their organization to disregard and minimize the distinction and my preference is that APEGA address this dishonest behavior more definitively and in a way which precludes further argument in the future.
- ASET has no business getting more scope for CETs. What is the point of my engineering degree? APEGA should shut it down alas the Alberta Government will screw APEGA and its members again because the economy needs more dumbasses (ASET members) with signing authority
- This does not seem logical to me.
- I strongly agree with APEGA's opinion regarding this matter. This has been an ongoing dispute for the 34 years I have been a professional geoscientist
- Clear and simple as possible. "it's never wrong to do the right thing"
- The complexity of education is limited with technologists and therefore should not be given more authority. Significant risk to public
- None for now
- I agree with APEGA's statement that "respect is not a criterion for independent scope of practice. Public safety must always be the first consideration, not self interest." I think ASET has this the opposite way around. Please stand your ground!

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- It appears to me that ASET's proposal is overly simple and does not adequately address the potential level of risk to society
- Is there a way to take this back and forth between ASET and APEGA to the next level? Should APEGA members start writing their MLA's ? Could industry get involved regarding their own specs that require authentication by a professional engineer?
- I believe Mr. Cavanaugh's proposals are inappropriate may put the safety of Albertans at risk.
- It is most unfortunate that this issue continues to dominate our relationship with Technologists. I am afraid this could lead to the Government taking away our self regulation. I encourage APEGA to reach out to ASET to come to an agreement ASAP.
- I agree with the arguments made by APEGA including the excerpt from ASME which cannot be under stated. I have worked on Standards development for a number of years including the CSA Z662 Pipeline Technical Committee and have an understanding of how prescriptive the standards and codes can be to ensure public safety but at the same time they cannot take into consideration of all situations and applications and this is where engineering knowledge and experience come into play as applied by competent persons in developing specific code/standard compliant fit for purpose designs.
- As a Professional Engineer I have gone thru a 4yr university Degree as well as 4 years of work experience before I could ever apply for my P.Eng designation although work experience can make up for some of this there are fundamentals in the education which are never learned thru work experience. CET's have the ability to work unsupervised and not required to authenticate would only water down our profession. I agree with the P.L designation due to the limited scope of work which is applied and regulated jointly between ASET and APEGA.
- There is already a clearly defined path to limited scop they respects the need to protect public and environmental safety. The ASET proposals comprise this.
- There is already a clearly defined path to limited scop they respects the need to protect public and environmental safety. The ASET proposals comprise this.
- I do not support multiple associations regulating the practice of Engineering in Alberta. This is unprecedented in North America as I understand it.
- Hopefully we as Professional Engineers have not developed an "upper class" image that we are seen as protecting in the eyes of ASET. If that were the case I could understand not aspiring to be us but rather wanting to be independent and self directing.

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- Aside from coming to what is, in my opinion, a perspective based on principles and as a result of an in-depth consultative process, APEGA's insistence on presenting the facts in a calm, respectful and mature manner, is to be applauded. To often in our shallow, media-gratifying social discourse, we take sides based on self-agendas and present extreme views which give no credit to the opposing sides even if they are well-merited. Presenting APEGA's opinion in this manner is the very essence of professionalism - the very same standard the Association holds its members to. Mr.. B. Cavanaugh's Nov. 8 post misrepresented well-known facts which (whether intentionally or otherwise) indicate a lack of professionalism; this demonstrates ASET's approval of an approach wholly unbecoming of they very 'independence' they seek for their members. I encourage APEGA to continue to act as principally as they have to date.
- APEGA has to maintain engineering standards and agreeing to allow lesser qualified people to do unsupervised engineering work will lead to eventual disaster to the profession. APEGA should vigorously maintain standards of practice requirements. If technicians want to do more engineering work, they can meet the requirements of a challenging engineering degree. We have to maintain a recognised international level of education, training and competency or a Canadian (Albertan) designation will come to mean nothing.
- Having worked my way through the qualification process for both the P.Tech and P.L. designations I see no reason why a P.Tech should not be able to take responsibility and authenticate their own complex work that falls outside of recognized codes and standards.
- I strongly disagree with expanding the scope of a P. Tech. I feel that their independence should be reduced.
- A simple example: We get a lot of phone calls about wall removals etc from Home owners not associated with engineering industry, and those people are not even aware if a P.Eng is competent to decide whether a wall can be removed or not. Letting ASET to decide if this can be their scope of work will simply confuse people even more.
- No reason to change the current scope.
- Too many levels of certifications/registrations is confusing.
- I fully understand ASET position as it is trying to achieve what APEGA has already accomplished which is more control and consolidated power. I question APEGA's own ability to engage it's membership on any issue. The only parties that appear concerned is APEGA and ASET, not the general membership. I base this assessment on the low number of views of videos along with the consistently low vote counts at General Meetings. Maybe the question APEGA should be asking is how to engage the membership

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instead of how to hold an iron fist over them with the ruse of Public Safety. As an P.Eng. I have no mobility unless I am qualified by APEGA or the like. I am especially tired of always having someone looking over my shoulder, qualifying my abilities, or making me prove my worth. At what point do I receive the respect of completing my degree and achieving my professional title because I don't get it from the general public, employers or APEGA. Also, I note that you have individuals working for APEGA that are not engineers and I believe this is wrong. Anybody that investigates/regulates an engineer should be an engineer, but, APEGA appears to be just like other businesses that want to hire techs so they don't have to pay for engineers.

- There needs to be a progressive path for a Tech graduate through documented training and experience through to being approved and certified as a Professional Engineer/Geoscientist.
- Overall I agree with APEGA's stance. In practice, I see many examples from my workplace where technologists are performing work at the same technical level or higher than their colleagues who are professional engineers. However I also recognize that these are specific people with specific qualifications and experience levels, and that to the degree it is possible to categorize individual competence by qualification, I think it makes sense that professionals with a lower qualification requirement should have a more limited scope of practice.
- APEGA has already made this mistake of getting this far in allowing techs get as much recognition as they have. Two years of easier schooling and a bit of fieldwork does not cut it and I am speaking from firsthand experience as a tech and engineer. Tech school was not even close to being comparable to university level education. To use a loose analogy, do you see surgeon allowing nurses to operate because they have watched/assisted a doctor for a few years? Would you allow that nurse to operate on you without the doctor in room because she's seen it before? The definite answer is a NO. It does not lower the esteem or respect of said nurses who themselves are well educated and trained and respected but the fact is a doctor knows more than a nurse and if the nurse is capable of being a doctor than that nurse should go to school, finish the years of academic hell, and be a doctor. Engineering is no different so how can we possibly be even discussing this???? Come on people get real here and grow a spine and defend our profession already.
- I do not think ASET members should be given the same scope of practice as APEGA members. I agree with the current philosophy of giving ASET members with sufficient experience the ability to sign off on work within a limited scope of practice as is the case now. If ASET members want the same scope of practice as APEGA members then they should tell their members to go back to University as all APEGA members have had to. We have staff right now working for us who were ASET members and

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went back to University to upgrade their education to become APEGA members. These individuals are not happy with ASETs push to make these changes and disagree strongly with ASETs proposal as they recognize the differences between the education and learning provided in a university and a technical school.

- As I deepen my understanding on this matter, particularly in more understanding/clarity on what ASET is requesting, perhaps my opinions may change as long as it doesn't cross any boundaries that I discuss in my comments.
- APEGA's response is correct and we'll presented. Please stay the course.
- I would rephrase this as follows. The public must be made aware of the risks involved. For an analogy, is the public willing to be operated on by a fully trained nurse?
- I have practiced engineering since 1994 (apparently a key date in these public posts) in Alberta, I am not seeing what ASET thinks is broken with the regulation of engineering in Alberta. As APEGA, I fully agree that any ASET member has the path to gain the PTech or advanced status. The other option is always to enhance and complete further engineering education; as engineers we spent a minimum of four years at university, whereas a technologists is at least two years short of that education.
- While technology may advance and change, the key to effective safe practice also rests with each practitioner's moral/ ethical standards and character including humility and submission to established authority. As 'science' does not countenance, or forgive fools - a wise man seeks counsel of those with greater wisdom and so builds his 'house'. Based on APPEGA's recapitulation of past meetings sessions etc. - ASET's ambitions are not a good or wise way forward in that it could put ASET members at personal risk, as well as add jeopardy to the public. (Do I not correctly detect an 'attitude' in the current social media expression by ASET(?)) The above comments are not in any way vindictive invective toward ASET, or any of its members -but rather (now as a life member of APEGGA) I have continued to follow changes that are happening in other professions to bolster and meet high professional standards.
- The P.Tech is exactly what ASET is requesting. a C.E.T. doesn't have the necessary experience to work without professional oversight. The additional experience and exam requirements of the P.Tech are crucial.
- I agree with ASET's proposal to increase the scope of P.Techs but I also disagree with how far they are wanting to go with it. At the same time I also disagree with the size of scope a P.Eng has across industries. I say give the P.Tech the ability to be responsible for their own work but also make it more difficult to achieve the P.Tech designation.

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- It sounds like Mr. Cavanaugh needs training in engineering codes and standards.
- There already exists a path...specifically qualifying for a P.L.which I have done.
- I disagree with the creation of so many classifications for technologists that lead to independent practice.
- Current system is working well; don't understand the driver or rationale behind ASET proposal. If additional scope of practice is desired by technologists, it is clear that there are already clear paths to verify competencies in pursuit of alternate licensure and expanded scope.
- if this proposal were to pass, C.E.T.s could take away jobs and opportunities from not only E.I.T.s but also P.Eng as possible lower cost alternatives to P.Eng but also introduce unnecessary risk to the public.
- Thanks for taking the time to communicate with members on this important issue.
- To approve ASET's proposal would confuse the public. The result would also reduce the quality of technical services available to the public when exactly the opposite is in the public interest both short and long term.
- I have encountered many individuals throughout my career who believed that the authentication process was only blind "rubber stamping" by way of being a status symbol. Perhaps this may be a driving factor amongst some of the ASET members or Council.
- I do think our association should be more involved with codes and standards. Our mandate is to protect the public and our involvement as an association would not be considered lobbying as long as our recommendations to the committees are based on the mandate. Standing at arm's length from these committees has only created confusion and sometimes changes that benefit the manufacturers and users but not the public because there is little or no representation from an organization that represents the public interest from a professional view.
- ASET members are free to take the education requirements necessary to become a qualified member and therefore practice and take responsibility for engineering decisions and design.
- See previous comments.
- I fully support APEGA's position, do not compromise
- Hold the ground. It is not appropriate to give technologists a right to practice independently as they are not qualified. The public will support that position if it is explained clearly and simply.

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- I will be calling my NDP MLA regarding this matter to ensure that he understands that this is an important issue to both his constituents and to the public at large.
- Dangerous to the public
- As I am a Non-Practicing Member, there is no professional incentive for me to restrict practice. Nonetheless, I do not support ASET's proposal.
- Becoming a CET takes work and are an important part of the engineering team. But this is not a shortcut to engineering practice and, given sufficient experience, a path to independent practice already exists.
- The option to practice within limited scope and independence should be retracted altogether to be consistent with the profession nationwide
- It is my understanding that Even under ASET's current proposal, ASET membership is still not a requirement for any individual, but particularly graduates of polytechnics, who might wish to call themselves a technologist or an engineering technologist. They are not at liberty to use the designations which ASET confers. While I do not have any current data, the majority of technology diploma graduates have never bothered to join ASET. While some organizations may require their technologists to be ASET members, many do not. The diploma credential is an adequate confirmation that an individual possesses the background needed for a particular job and many employers are satisfied with this kind of arrangement. Responsibility for key technical decisions and in particular safety belongs to a PEng at some level in the reporting structure.
- For some reason people don't seem to understand that engineering must be self-regulated. People untrained in engineering cannot properly comprehend the ramifications of decisions about how the profession conducts itself. As engineers, we also need to be very careful to properly consider this.
- APEGA made a strategic mistake by accepting ASET. That was totally unnecessary and uncalled for. Any ASET member (like myself) had the opportunity to go to university and become a P. Eng. That was the choice open to them, but rejected because this road of becoming an APEGA member was easier. APEGA rolled over and opened the door to ASET and now that Genie is out of the bottle, APEGA has to live with the consequences. Eventually, ASET will get their way because there is lot at stake for them. APEGA's role will go the way of the Do-Do bird. For us who have worked internationally, having a P. Eng. from APEGA means diddly-squad. So, APEGA, keep on fighting while the market will slowly but surely push you into oblivion. :-|
- I view the ASET push for an independent scope of practice and a designation as unnecessary. A pathway for Technologists to advance has always existed.

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If they feel they have the requisite knowledge, gained through years of work experience, they are welcome to sit the prescribed exams and become a Professional Engineer or Geoscientist.

- The roles of ASET and APEGA have always been clear. Given differences in education, job function, responsibilities, professional development and experience, I fail to see how ASET can argue for equity. There is no shortcut as ASET would like.
- It appears that ASET's position is tied to Canadian immigration policy and the registration of foreign trained engineer's and geoscientists. Registration of professional practitioners is mutually exclusive to immigration policy.
- I know many technologists who have achieved the PTech status and I am shocked. Especially with all levels of technologist now writing the longer PPE exam, there is virtually no requirement for proof of ability in the ASET application process to take you from CET to P.Tech. The process is too simple and the application too vague. It's a matter of filling in some forms and supplying basic resume items. For the safety of the public I think all practicing licensee members MUST be regulated by APEGA and as a member I feel that if ASET regulates it will devalue the status.
- ASET members are free to enrol in a University and obtain their Engineering degree, in order to progress to a Professional Engineer designation. Professional Engineer designation must remain the highest standard, with only the most intelligent, properly trained, experienced, and peer respected individuals having the ultimate responsibility for signing off on engineering related items that could impact public safety.
- APEGA never should have allowed ASET to have an expanded scope of practice.
- I believe APEGA is taking the correct actions.
- I believe that technologists and engineers are vital to any organization that provides engineering. They each fill a different role and should be considered complementary but never mutually exclusive.
- Power grab
- All licensed professions have people working with them who, over time achieve a competency and understanding of the discipline. None of them are allowed to assume the role or title without the proper accreditation. If you want the designation, get the diploma. APEGA must stand firm on this principle.
- ASET is just trying to advance the interests of their members without due consideration for public safety.
- Public safety is of paramount importance. In my 12 years of experience working alongside technologists I have yet to see their recognition of how

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important public safety is. This is especially true for young techs (<15 yrs exp) as they have told me it's "just a job" for them not a career or profession.

- Only ASET is enough for Alberta engineering work, why Alberta need APEGA? Suggest cancel APEGA, return P.Eng.'s member fee
- First, I do not agree with ASET at all. Secondly, and to be straight to the point, with all due respect, it is a non sense, as a simple comparison, nurses has a limited scope of practice and work under doctors supervision, and even so, nurses are respected, help and provide a significant contribution in health matters.
- Although I sincerely appreciate APEGA's efforts on our behalf and I agree with APEGA's position, I do feel that some ASET leaders have used their association with APEGA to try and springboard to an independent role. I would recommend that APEGA be more conservative in our future collaboration with ASET as to prevent further problems for our profession. I would rather deploy APEGA's resources in the strengthening of our own profession than allow us to become distracted in ASET's efforts to build up their own brand. I realize that we're in this issue now but in the future, I support a more singular focus on APEGA and our members than broadening our influence with other aspiring professions.
- I can understand ASET's desire for the change, given in my discipline (software engineering), technologists often have the roles and responsibilities a professional engineers may have in a more traditional industry where established and traditional engineering disciplines operate (i.e. - Civil, Mechanical, Electrical). Within the IT/Tech industry, very often the labour pool of licensed professional engineers is so shallow, companies engaging in the practice of software engineering are unable to find professional engineers, and so candidate requirements are often lowered to a standard where those roles can be filled. In the instance of the Tech industry, from a practical perspective, I do not believe APEGA has the practical ability to effectively regulate the practice of Software Engineering to make it such that a Professional Engineer is required to fill many Software Engineering positions. The shallow labor pool of licensed Software Engineers would drive operating costs to the point they could not operate in Alberta, but every business with a corporate presence in Alberta engages in some level of software engineering within their various IT departments. I have worked for 7 large Calgary based companies over the course of my 11 year career and only with 1 was my license recognized as a requirement for my position and work. At every other company I have worked for, I have seen a wide array of individuals with either Computer Science backgrounds, various IT professional designations, and very often Engineering Technologists designations occupy the same roles and perform the same work functions I have. Throughout my career in fact, I have come to accept that my licensing with APEGA has little relevance to

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my work and career progression within my industry, although I understand the rationale for it. Correct or incorrect, my impression has been APEGA's focus has been on regulating the Engineering professions within the oil and gas industry and attempting to apply the practices and regulations in that industry to the IT/Tech industry. The pragmatic differences between the two industries and disciplines is too large and from an operational perspective, APEGA's role in regulating Software/Computer Engineering within the tech industry has been underwhelming to the point of seeming non-existent. Moreover, with the downturn in the oil and gas industry, the IT/Tech industry has established itself as a driver of industrial and economic diversification for the province and I suspect ASET can point to the tech industry with legitimacy as an example of where it is reasonable for Engineering Technologists to have their own separate scope of practice and expanded jurisdiction in regulating the profession. I would also take very seriously the prospect that, politically, with the continued downturn in the oil industry, the provincial government in the coming years will be VERY hard pressed to promote the idea of provincial economic diversification. IT/ Tech will undoubtedly be one of the major industries different mandates of Provincial governments will look long and hard at with respect to legislation concerning professional governance. I regret saying this, but from that perspective, APEGA's position seems very weak, and ASET's seems very strong. I would like to continue this dialogue further, and can be reached by phone: [CONTACT INFORMATION REMOVED]

- APEGA's position strongly reflects my own. The proposal from ASET fails to provide sufficient justification for the proposed changes and seems to be in ASET's self interest rather than the greater interest of society.
- A Technologist has 2 years of education. An Engineer has 4 years. Big difference.
- I have covered my concerns in my previous comments. Thank you to the people on the APEGA boards and committees for the work they do, and the passion to argue these points.
- While I do not agree with APEGAs opposition proposed scope I would support a continued joint committee in the evaluation of the elevation of technologists to ensure that appropriate review of qualifications are applied to ensure public safety. I would encourage acceptance regarding the progression of scope and responsibility for technologists in a manner that can be adequately qualified by appropriate professionals to ensure public safety. I do not feel that the proposed changes will result in confusion.
- I fully believe that recent Technologist graduates *(CET's) typically start off with a better understanding of related codes and how to interpret them for their area. Where-as most recent Engineering graduates (EIT's) are only familiar with theoretical math and haven't been exposed to any codes or standards relevant to their industry. I find this great divide between the two

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to be quite problematic. I was quite distraught and upset to find that my 5+ years of University level education did basically nothing to prepare me for anything related to the industry I was hired in. If you then couple that with an industry where they don't offer mentoring and only expect the EIT to learn through 'on-the-job-experience' then we have EIT's who aren't being properly trained or monitored, and may soon be a P.Eng with bad habits and who are improperly (or not at all) trained to the standards and codes for their industry.

- Note that APEGA's first responsibility (i.e. in addition to preserving public safety) must remain to its members and to protect the value of the Engineer license. APEGA should make absolutely certain it does not flood the market with Engineers only to find out the industry demand way outweighs supply. If new Alberta-graduate Engineers are unable to find employment, APEGA should take proper measures (i.e. in coordination with the University of Alberta, University of Calgary, etc.) to reduce the number of students who are permitted to enroll in first year Engineering, etc. until the market corrects itself. This is a bigger problem than APEGA might have realized, particularly with the flood of 'Engineers' who immigrate from other countries and might not be able to stamp drawings but are a source of cheap labour for some companies who employ their services at the expense of quality Alberta engineers. It is for this reason that many Alberta Engineers (i.e. APEGA members) are particularly perturbed about the proposals of ASET and to say that APEGA should fight back against ASET very hard is an understatement. The questions should be how should technologists be regulated, and is APEGA complicit with the Universities in a flooding of Engineers in Alberta far beyond what the market can reasonably sustain? Note that when APEGA is making decisions about what volume of engineer licenses are appropriate or sustainable in Alberta (including future forecasts), I would argue very strongly that APEGA should be obtaining 100% of its information from new graduates, not from companies. Of course many companies would like the market flooded with too many Engineers, since that places employment pressure on Engineers and makes Engineers cheaper and more expendable. This however is argued to be highly unethical. By ensuring the Engineer (and technologists) market is not flooded, it would put more pressure on companies to treat licensed Engineers with the respect that we deserve in terms of wage offers, employment benefits, etc. In summary: I disagree with ASET's proposal and would like APEGA to fight hard to preserve the value of the Engineering License that should never be eroded.
- there are technologist who continue their education and training to engineering degree to understand and solve complex engineering tasks based on codes and requirements and be confident in considering public safety. They know the necessity of minimum education and skills and training to act as a engineering task and problem solver in a right way and safe in regard to public and environment.

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- It will only create confusions among the Public and also on APEGA members.
- ASET seems to be acting as a union advocating for their members and not as a regulatory body.
- See previous comment. That pretty much sums up my position and why I'm considering dropping my APEGA membership and applying for an AIA professional membership. More applicable to my work and the environmental/soil reclamation industry receives more support from that professional society.
- Technologist's work need to be supervised by a Licensed APEGA's P.Eng or P.Geo to make sure that public safety is always addressed.
- None
- I agree with the points laid out by APEGA and their position on rebuking the proposed changes. While I understand ASETs members frustration in not having a defined scope under which to operate, I feel that the CET designation is not rigorous enough to uphold public safety and interest at EVERY moment and will inevitably lead to an incident. In addition, there is a clear and available career progression for CETs if they would like more responsibility in obtaining a P.Tech and P.L designation. Some may feel as though 2+6 years is too much but it totals the same as the 4+4 required by APEGA to ensure that engineers obtaining the P. Eng license are competent at providing technical solutions and upholding public safety in every aspect of their jobs
- I hope the government can see the potential risks with ASET's proposed changes.
- I believe that APEGA and ASET should continue to work together for joint certification of technologists. If they were to work as separate and independent bodies then we would introduce inconsistency and risk to the safety of the public.
- I do not agree with the tone, nor the positions APEGA has taken on this matter. ASET is within its rights to have a clearly defined scope of practice. I would never presume to work on a project where my work should be done by a certified technologist. I have neither the training nor the experience to do so, only they do. That's why we have the distinction between the two. It's only fair that we legally define that work and update it for the modern, 21st-century workplace.
- To make every layman understand - If you have a serious health issue - you go to a doctor(not a nurse); serious legal issue- you consult a lawyer(not a paralegal) - so why is Engineering any different. If you decided that you dont have the skill set to become an Engineer and not sacrifice 4 years (plus) in an Engineering school- then ASET should not even exist !!!!!

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- System works as it is today. Any changes must be backed by supporting evidence that the change will be a net improvement to the public. Not sure if ASET is showing this.
- I appreciate the stand that Apega is taking against the proposal by ASET. Lowering the bar and shortcuts to titles doesn't help the public.
- APEGA must do everything to stop ASET by applying for separate authority from Government of Alberta. CET's do not have required education and experience to produce any Engineering work to protect public safety. Most of the CET's are just drafters. APEGA should send this survey to all professional Engineers in Canada, to bring awareness against ASET's interest not supporting public safety.
- While it is possible for some, and sometimes many, to devalue and/or ignore what civilized populations have constructed through history as structures for the common good, we must continue to explain, educate and nurture so that effective and recognizable "win-win" outcomes are the goals -- even after setbacks. Thank you for arguing strongly and respectfully on my behalf.
- ASET is challenging APEGA to prove that they have the will and competence to have their certified members produce safe and constructible designs. Having worked with both sides of the issue I tend to agree. THERE IS NO SUBSTITUTE FOR FIELD EXPERIENCE.
- I don't support their proposal
- CET should not be granted limited scope of practice. They must take pathway for P.Tech or P.L status if wanted to advance career. This is the correct way.
- Can you post ASET's response to the gov't?
- I fully support not having anybody with a C.E.T. designation have their own scope of practice. From my own experience, having both a technology diploma and engineering degree has shown me that there is a significant difference in schooling between the two.
- See previous comments.
- I feel it's too much a risk to the public, P.Tech exist for a reason
- This is an important issue and I appreciate APEGA taking a stance and issuing educational material.
- I hope APEGA can come to an agreement with ASET. However I stand behind APEGA and morals for upholding public safety
- Please apply the standards fairly. There is already a limited scope of practice for Technologists seeking a stamp. Considering the goal is public safety

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stated on both proposals and as anyone who has worked in construction knows, you can have all the education in the world but if you don't have experience you are a danger to your colleagues and the public

- I agree with APEGA's approach and concerns.
- ASET must be supervised by APEGA
- current P Tech and P L covers ASET members willing put efforts to be member of APEGA. ASET proposal of blindly treating all CET equivalent to P ENG is not acceptable
- I truly cannot fathom the time and money wasted on this issue. To think of all the issues we have out there (unemployment, increasing fees, etc) and that this is requires an individual mandate is beyond ridiculous. I read this thinking it was five year olds fighting... incorrect, it was professionals.
- 100% in favor of ASET's proposal
- Please do not allow this to go ahead, it is a power play by definition.
- Continue to act in a professional, respectful manner as it appears you have been but also push back hard on ASET and re-assert that there are sufficient processes in place already that are working well. If ASET members expect a higher degree of independence, than they should consider a higher degree of education to compliment their experience.
- I'm starting the Geological Technologist program at NAIT next year and I'll be getting my BSc Physical Sciences this year and I've been reading both websites and information about requirements and maintenance and all that but honestly. I just don't know what this will mean when I graduate. First thing is that I found out from Nait that they're doing their program recertification this year. I think it's ASET but I'm not sure if it also means APEGA. Well, if they don't meet the certification, what then? If these changes go through what is it going to mean for us trying to go into the field? Would we only be with one organization? What about the ability to become an actual P. Geol later? When I finish the Geological Technologist and have my BSc in Physical Sciences I almost meet the education requirements to work towards the professional geologist certification at some later point. Right now, I'm more interested in the applied aspect but I could see later wanting to move away from technologist and into the P. Geol. How much more difficult would this be if both organizations go their separate ways? Honestly, I just don't know what to think.
- I like ASET's proposal and think it could be good for the province. I do believe it should be controlled in some particular practices (Mechanical, Electrical, etc) and should be narrowed to a defined scope as to what CET's can independently work on

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- There is no benefits added to the public by ASET's proposal, I am very much in support of APEGA's position considering that Alberta is the only province having such relationship between Engineers and Technologist!
- Since there is only one Act, there should only be one association. I would fully support leaving the Act as is and APEGA absorbing ASET. Call it APEGTA and be done with it. We need to make it simple for the public too.
- APEGA needs to take a very firm stance in order to prevent the continual desire for ASET to push for more authority and autonomy. If need be, there should be a public information campaign to get out ahead of this, should it be likely that ASET will attempt to influence change through the court of public opinion
- I wish APEGA would share any comments that they've received from regulators, I'm concerned about the ASET proposal and that there's a chance lobbying or other interests might be ahead of the public interest and APEGA's responsibilities
- I don't think it would be a good thing for ASET to have their own independent regulation and CET's practice engineering without due proof of experience.
- I was once a member of ASET after taking a two year course at NAIT. I felt the education I received wasn't leading me in the direction I wanted to go ie. a professional career so I went to University to get an engineering degree. The breadth and depth of education received for the engineering degree is well beyond that received from NAIT. I can confidently say that there are large gaps in theoretical knowledge provided to technologists. I learned more practical skills at NAIT than I have gained through my University studies but I don't believe that practical skills are a substitute for theoretical knowledge.
- Can we follow the model / relation in other provinces
- No additional comments. I can see why they would want to act independently. But it makes no sense to allow that to happen
- My concerns: 1. ASET and APEGA would be redundant. I see this leading to major conflicts between the two bodies. 2. The changes would flood industry overnight with P.Tech.'s who now would not be differentiated from P.Eng.'s. This has a major impact on jobs, competition for jobs, and economic consequences for businesses and individuals. 3. I'm concerned that ASET is claiming that they have the competency to claim that their members are competent to take on the scope of what an Engineer would normally do. It doesn't make sense that an organization which does not have the expertise and competency to do this now can self declare that they are now competent. This should be decided and regulated by a body who is expert and competent in this area (i.e. APEGA) which is already the case with the joint committee.

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- You need to keep pushing the public safety message and point out that ASET isn't doing the public safety work that goes along with their current scope for P.Tech's. Also keep talking about the career path to become a PL.
- I have personal experience doing both types of jobs, and must voice my opinion that there are large gaps between the education and work exposure of a technologist and an Engineer. Even with limited scopes of practice, secondary reviews, and proper approvals should be held paramount. It is irresponsible to degrade the strong standards currently in place. I do think having all roles defined under one APEGA umbrella provides consistency, and the ability to regulate responsibly. At the end of the day, there are similar codes, standards, and regulations that bind ASET with APEGA, but the accountability, and expectation of different roles, and career paths must be separated for the reasons outlined in the APEGA content. Thank-you to APEGA for continuing to protect industry, and society with this review.
- APEGA should be the only regulatory body that regulates the practice of engineering and geoscience in Alberta. Any attempt to duplicate or confuse this function must be strongly opposed.
- During my career as a P. Eng. there have been many instances where I have had to refer problems to other more qualified P. Eng's or other P. Eng. disciplines. As this is often the case for professional members, it follows that there will be a greater requirement for ASET members.
- Technologists already have the opportunity to expand their scope of work through the Ptech and PL routes. This arrangement is fair and serves the public interests. Allowing ASET to expand their scope will compromise the safety and interests of the public.
- Authority must come with responsibility.
- I'm very concerned about engineering complex work that need high level of education and experience to be done by technologist with limited knowledge to the subject
- APEGA's position is sound. Good luck!
- It is important that anyone making new codes or are in a situation with engineering knowledge has an understanding of how these codes were created. This involves understanding calculus, fluid dynamics, heat transfer etc. Otherwise the changes in codes will not properly be understood. I do wish that I had access to the comments that ASET had about APEGA's recommendations. I have tried to search them online but cannot find them
- In my humble opinion the existing system is already broken (mainly due to economic pressure), and I would advocate that all autonomous acting individuals should be regulated by one association. Giving P.Tech. and C.E.T. designations more autonomy is not in the interest of public safety;

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as a P.Eng. I had to discuss misleading information presented by a P.Tech. with my clients a number of times and still don't know where to direct my concerns. In an integrated environment (i.e. a firm that employs both engineers and technologists) autonomous activity of a P.Tech. may be desirable (i.e. when a P.Eng. hands over limited tasks to a skilled person); however, engineers should never need to discuss their opinion with a "testing agency" only employing technicians/technologists.

- This is an important issue and I support APEGA's position; however, the my sense is that the tone between APEGA and ASET is combative, perhaps even hostile, on both sides. Does there need to be some self-reflection from both organizations to reset the relationship and search for a pragmatic solution that can work for both entities?
- I don't think ASET has articulated a logical reason for this scope of practice change other than wanting to be an equal regulating body to APEGA which in itself would make Alberta a unique place to practice engineering in Canada. This would create confusion for the public in my opinion and is a potential public safety issue. I worry about drawing authentication and inappropriate engineering judgment by non qualified individuals. Companies that operate nationally or globally will have an exception when working in Alberta that non P.Engs are able to authenticate work and that there are multiple regulators. I think this creates a lot of potential for future engineering issues particularly on big infrastructure projects where authentication is required.
- The graph being used to APEGA misses the actual Scopes of Practice of a P.Eng./P.L.Eng./P.Tech. To further validate this opinion I have reviewed this graph with a number of Senior P.Eng's. A very simple example of this as represented by the APEGA graph would be activities having; minimal depth and breadth. The graph says these can only be done by a P.Eng. This is of course not the case at all. This is only one of many examples. It would appear not much thought went into this graph. A more accurate graph has been previously submitted to APEGA but appears to have been discarded. An additional copy will again be sent to APEGA.
- It is long overdue to roll the practice of all "use of science for the betterment of society" under a single body (like APEGA). No other province has gone the path of maintaining two "self-regulating" bodies according to the discussion at the session I attended. Why continue? Wasn't dealt with in the last update as joint coverage was proposed and "accepted". Now the degree of acceptance is being tested again. Still not there. End the disagreement before the province chooses to strike another body to do this for us all.
- To reiterate previous comments: A technologist can become an engineer under the current model, with a bit more education, if that is the career they wish to pursue. We are watering down the profession and should rather be encouraging consultants and companies to reinforce with and train junior and intermediate engineers. Already too much work is abdicated to technologists.

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- The proposed Registered Technologist designations will add more confusion. CET is a standard designation applicable Canada wide so it's clearly understood by the public I don't see how the ASET proposal will help females in her career, actually it would help any CET, but due to the male majority it will help more to males. It's a non-sense As a foreigner Engineer I strongly disagree with ASET explanation about helping foreign professionals non APEGA registrable to compete, it looks like a back door. I fully understand the burden of becoming a registered professional for foreigners licensees so I agree that we need more help to get registration, however that's not the way. Before my registration I was able to work at technologist level (no ASET registration required) in engineering and surveying, under PEng supervision, it helped a lot to understand the engineering work, specifics and responsibilities in Canada About the PTech board, I would like to recommend APEGA to be more involved, it's possible, to avoid complaints
- - Is additional public resource justified for ASET's proposal and what are the added values to the public? - Are this legislative changes narrow sight and how is it in comparison with the rest of Canada, US, and other developed countries?
- The change will cause confusion and damage professional people's fame
- As depicted in the video, the range of experience available may appear to make technologists look very competent in very narrow areas of the overall scope but they are not equipped to broaden that narrow range since they do not, without further education, have the theoretical basis.
- APEGA opened the door to this argument when it first recognized limited responsibility for technologists which diminished the profession. Hopefully, APEGA can turn that around somewhat by resisting this power grab by ASET and the corporations that would benefit from the watering down of the professional title.
- I understand that engineering degrees were at one time 5 year programs. They were then condensed to 4 years and hence the heavy workload. I believe this is the only true profession in Canada with requiring only a 4 year degree. And there is a huge amount of responsibility with the engineer role with very significant impact to the public safety and well being. If anything there should be more education required for an engineering license, not less
- Public safety should be a top priority. Engineering project have the potential to have catastrophic failures if not done correctly. Its taken time to develop engineering standards we have today built on the past failures. These should not be tossed to the wind just for the sake to make someone feel import. Public safety is not game and not everything should Uberized.

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- I don't think I have additional comments. There may be technologists who can safely practice without oversight, but they can achieve this through existing channels.
- I strongly believe that: a) APEGA and ASET should work together to regulate all engineering work, and b) Certified Engineering Technologists should be granted expanded rights to practice and take responsibility for their work
- I believe there should be one organization responsible for all grades of engineering/geoscience within the province
- No additional comments
- During the 10yrs of the former R.P.T.(Eng) designation (jointly between ASET and APEGA, as members had to retain the R.E.T. designation with ASET and the R.P.T.(Eng.) designation with APEGA), there was not a single member disciplined for practicing out of scope. The same cannot be said for P.Eng. members for example. What is the statistic since the R.P.T.(Eng.) members were converted to P.L.(Eng.) designations? I would postulate that it is still zero or exceedingly small. If we are such a well-disciplined group, as are the P.Tech.(Eng.) designations in ASET, I can only postulate that APEGA is merely crying foul and that the sky is falling (risk to public). Either play fair or come out and admit that this organization is trying to corner the entire market on engineering, as what APEGA is currently doing is duplicitous
- It is not clear to me what ASET's justification is for their proposals. Clearly APEGA's response is in the interest of Public Safety, which has to be paramount in the in eye's of the regulators.
- Scope of Practice for CETs While I do not oppose this in principle, I don't see a clear plan to implement such a scope of practice. I think that, were the Government to give such a scope of practice, and were risk to the public realized, that the public trust would be broken, and ASET's name would be tarnished. APEGA's reputation and relationship to the public would be largely unaffected. Stating that CETs cannot take responsibility for their own work relies on the principle that all work is of a "professional nature", and I don't think that's true. There are fields of work where Technologists regularly work, more or less, independently. Their work is only reviewed due to legislative requirements. I think that there is some scope where Technologists can work without supervision. Change of Designation for CETs to RET I agree that changing designations is bound to cause confusion - it should be avoided if possible. Addition of P.Techs to the Definition of Registered Professional I see no issue in adding this. Removal of Joint Boards & Committees I see the current structure as being awkward, and reading between the lines, not wholeheartedly supported by APEGA. While APEGA does claim to have fulfilled its role since 2016, I wonder how APEGA behaved prior to that. I suspect that ASET's rationale here is that APEGA has not been a willing dance partner, and ASET wants to operate on its

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own. Having gone through APEGA's application processes, I can imagine the frustration that ASET might feel, having to deal with APEGA's staff without their full attention or time. If this were to come into force, ASET would be an independent regulator. In this case, APEGA could separate itself from ASET's regulatory duties. Any malpractice or other poor performance from P.Techs would not be associated with APEGA in any way. I say let ASET take this and own the outcome - if it truly creates a risk, then that will become obvious, and ASET will suffer the consequences. APEGA would be left as the only trustworthy regulator. Change of Scope of Practice for P.Techs I largely agree with APEGA in this area. Those wishing to practice engineering or geoscience outside of established codes and standards should be examined on that basis. Expanding a scope of practice for existing members may create a knowledge and experience gap, and that might create some risk. A good plan on how to roll this out is required, or a clear pathway with clear expectations for how P.Techs can gain P.L status with APEGA. Currently, that pathway is unclear, expectations for P.Techs who want to become P.Ls are vague, and I suspect that APEGA does a poor job of helping P.Techs through the process. Everybody needs to pull up their socks on this front.

- Please continue to push for the oversight by the APEGA.
- All engineering and geoscience should be regulated by APEGA to decrease confusion.
- The current situation with ASET could be predicted long time ago, when a joint board was created. APEGA should take this opportunity to sever links with ASET and remove any references to ASET from EGPA. All engineering professionals should be managed only by APEGA. At the same time APEGA should eliminate practice of giving licences to individuals working entirely abroad and tighten entry test for foreign-educated ones.
- good luck
- I am in full agreement with APEGA stance on this. If I was to make a recommendation it would be to potentially implement a pathway for technicians to receive the engineering designation through further schooling. An example would be a further 3 years of schooling at an accredited University, with further credit given for work done as a technician towards the P. Engg, after careful review of documentation supporting their experience and work.
- I fully agree that ASET members should not independently determine the scopes for P.Tech.s or PLs. All CETs need supervision.
- I'm surprised this organization has proposed such unreasonable changes to legislation and to me calls into question the validity of having ASET as a separate regulatory body.

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- In some other countries, professions are not so much regulated, but professionals are criminally responsible for their actions. It takes care of public interest as well as Canadian regulations as can be shown by comparing the number of engineering disasters in countries with very different systems
- The level of education and experience of P.Eng and P.Geo, P.L., P.Tech., are well defined and accordingly the level of responsibilities are allocated. I disagree with the proposed changes and could not see any merit to go through changes.
- provide motivation for deserving ASET members to be a Ptech member.
- ASET is not trained to provide professional services and should not do so without oversight. Public safety is involved. If they wanted to be engineers, they should take the proper training.
- My own experiences working with technologists reinforce that many technologists do not know when they are crossing over into scope that they have no experience. I have numerous experiences in my career where I have had to stop the work of a technologist because of a potential risk to the public.
- ASET's proposal endangers the public. It seems that they are also trying to have foreign trained engineers fall under their purview. This cannot be allowed to happen.
- I don't buy that there is a real risk. APEGGA appears to be protecting it's turf.
- As stated by APEGA, there are already avenues for technologists to achieve independence from supervision - through the P.Tech designation jointly governed by APEGA and ASET, as well as through the P.Lic designation administered by APEGA. A good portion of the CETs I have worked with do not have the level of understanding and knowledge of engineering practices required for independent work. Those of them who do have the required knowledge, experience and responsibility generally pursue a P.Lic or P.Tech designation.
- Quite frankly I am not sure why ASET is seeking these changes. They seem to put public safety at risk, disregard scope for current designations and seem oddly self serving.
- ASET's proposed changes risks public safety, and will provide no benefit to the public at large. Individuals who are qualified to work unsupervised outside normal codes and standards already have a career path to do so. There is little active enforcement for keeping P.Tech.'s from practicing outside of their defined scope. Allowing CET's the same privileges will increase nonconformity, increase confusion by the public at large as to what qualifications a person needs for complex work, and risks public safety.
- None here

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- ASET's proposal only focuses on how this is in the interest of ASET's members and does not provide any rationale for how these changes are in the public interest. ASET's proposal unacceptably increases risk to the public.
- I agree with Apega and nothing needs to change from the current scopes of practice for technologists
- I think ASET's proposal doesn't make sense for Alberta's management of the Engineering and Geoscience regulation.
- Would appreciate the opportunity to hear from ASET as clearly as these comments have been expressed by APEGA.
- APEGA's position appears to be completely reasonable, as avenues already exist for individuals to pursue to expand their scope of practice without endangering the public.
- I believe ASETs position on these changes are not driven by regard for public safety and altruistic service to the greater good. ASET appears to have approached this as a means of attaining a better professional position and control of work that can already be done by an engineer. Engineers and technologists have their roles and responsibilities well defined already, there is no reason to change this beyond what is currently available. In my opinion, a technologists scope is a subset of an engineers - all political factors aside, APEGA should just regulate techs as well and ASET should be dissolved - other professions and para-professions do this. I think you might find that both the technical and engineering common membership of both groups would be open to this.
- To ensure the public is well aware of the distinction between a professional technologist and a professional engineer there should only be P.Tech and P.Eng designations with P.Eng oversight P.Tech. Simple and no confusion to the public! Without this there is no reason for students to pursue an engineering degree when they can simply go to a technology school and end up with the same stamping capabilities in the end. P.Eng can have a broader breadth of stamping capabilities than a P.L. however very few P.Eng ever stamp outside of their comfort area. This also creates a less demand for engineers in the workplace because there are more options if stamping is required. This province is already over saturated with engineers and now P.L. in the mix it only makes matters worse. Again only P.Tech and P.Eng where apega and aset would be joint and P.Eng provides oversight to the P.Tech.
- The argument that
- I concur with all of APEGA's concerns regarding ASET's proposals.
- ASET's positions are about benefitting their members not the public good or the practice of engineering. I don't know how you can move them off that.

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- P.Tech designation should be abolished to avoid confusion about P.Eng. designation.
- No additional comments.
- I disagree with ASET's proposals. There is strong rational behind the educational (degree) and experience requirements to be eligible to practise engineering in Alberta and those requirements should be upheld. I agree with APEGA's view.
- agree with APEGA's position
- I would hope that the next time the presenters held one of these sessions they would have a better understanding of ASET's position. They failed to answer that question multiple times.
- I was opposed to the P.Tech. designation at the outset, as it diluted the clarity between Engineer and Technologist. The proposed changes make it even less clear. Having two separate organizations makes it unclear as to who is responsible to whom. Both organizations should be merged under one roof, one set of regulations, and one set of clearly defined scopes of practice.
- I support APEGA taking all necessary means to ensure the government decision makers have the appropriate information upon which to base their decisions in this matter.
- The video seemed pretty hostile to ASET. I think the strongest defence we can mount is to raise the profile of engineering in the province, make the experience bar higher, and do deeper audits of the actual practice of engineering.
- The current professional progression for technologists is good the way it is. There is enough governance and assurance that the individual who is increasing their responsibility has been vetted properly to ensure the public's safety.
- Professional liability and primary goal of public safety are the cornerstones of the engineering profession. Education and experience are its foundations. By eroding these fundamental principals of the profession, the failure of the structure of the profession is all but assured.
- A very complicated matter. On the one hand they bring tremendous value to what we do. We want to maintain a good working relationship with our partners. On the other hand, we can't just give away what we have worked so long and hard to protect. I am afraid this is going to get messy
- it feels like it is a work around to allow people with foreign education to get into the engineering profession. if there is a concern that the barriers are too high to get foreign education recognized this is the issue that should be focused on, not to put the public at risk by allowing these changes

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- The practice of engineering is first and foremost focused on the public and the environment. With the rapid pace of technological changes, the development of solutions cannot rely on basic codes and standards and must embrace the ability to balance the complex solutions that APEGA members embrace with the underlying responsibility that we as members have to the public
- This will cause confusion to the public and there will not be an interest to go for a degree programme



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