



Pipe Trades Articulation

June 19, 2018

Day One Meeting Minutes

Meeting Date:	June 19, 2018
Location:	TEC 177, Camosun College
Meeting Time:	8:30am – 3:15pm
Committee Chair:	Darren Vaux, Camosun College
Vice Chair:	Brad Oliver, Okanagan College
Recording Secretary:	Cindy Drover-Davidson

- Participants:**
- **BCIT:** Tim Carson, Mark Overgaard, Steve Gilles, Lyle Reid, Dave Dunn
 - **Camosun College:** Darren Vaux, Jamie McPherson, Al Paterson, Scott Armour
 - **College of the Rockies:** Jack Moes
 - **Kwantlen Polytechnic:** Rob Lafreniere
 - **Northern Lights College:** Tim Roberts
 - **North Island College:** Rob Hughes
 - **Okanagan College:** Brad Oliver Greg Wirachowsky
 - **Pacific Vocational College:** Eric Bradbury
 - **Piping Industry College of BC:** Will Schwarz
 - **Thompson Rivers University:** Paul Simpson, Pat Barringer
 - **University of the Fraser Valley:** Rod Smith

- Guests:**
- **BC Water & Waste Association:** Edward Christie
 - **CSA Group:** Karin Fahey, Cindy Frabotta
 - **Industry Training Authority:** Angela Caughy, Colleen Rogan
 - **Technical Safety BC:** Ryan Milligan, Rick Vanier
 - **Viega LLC:** Lino Santoro

- Regrets:**
- Rod Lidstone (Camosun College)
 - Keisha Reichert (Northwest Community College)
 - Sven Rhode (Kwantlen Polytechnic)

1 ADMINISTRATION

1.1 Welcome and Introductions

- The meeting was called to order at 8:35 am. Darren Vaux, chair of the Pipe Trades Articulation Committee, & Eric Sehn, Dean of Trades and Technology, welcomed the articulation group to Camosun College, acknowledging Camosun's location on the traditional territories of the WSÁNEĆ and Lkwungan people.
- Participants introduced themselves.

1.2 Approval of Agenda

- Moved: Paul Simpson
- Seconded: Scott Armour

1.3 Approval of Minutes of June 2017

- Adjustments: Some changes to last year's minutes, requested by ITA, were included in the 2017 minutes sent to participants.
- Moved: Paul Simpson
- Seconded: Rod Smith

2 DISCUSSIONS & INSTITUTION REPORTS

2.1 Open Discussion – What does your department need to succeed in 2019?

2.1.1 Top needs/interests/concerns for this year: more students, especially in Foundation programs; student enrolments; concerns about how harmonization will roll out for Plumbing (PLMB), Gasfitter (GAS), and Steamfitter/Pipefitter (STMP).

- Foundation (FND) enrolments are low across institutions. Some institutions have had to cancel FND classes. Businesses are requesting FND students, as unemployment rate is very low (about 4% in lower mainland).
- High school career counsellors in some areas have a huge bias against trades. Need to raise awareness of alternative to University. This would potentially grow FND numbers.
- High enrolments and healthy waitlists for Plumbing Apprentices – some wait more than 18 months to get in. Waitlists are frustrating for students.
- Some, but not all, institutions are having challenges with filling STMP classes as there are more inactive than active Apprentices in the province (Inactive means that they've gone 18 months without training or work hours being reported). Work is busy and students want to do back-to-back training when they are available to do it.
- COTR is reaching out to PLMB contractors, asking what their training needs are, to see if apprentice numbers are sufficient to offer courses.
- TRU and NLC get a lot of cross-connection tests from Prince George.
- Sprinkler Fitter (SPRI) is running with good numbers in most institutions. Refrigeration FND is popular at Camosun, has 32 students, will offer 32 seats again next year.

2.2 Institutional Reports and Discussions

2.2.1 Program Advisory Committees (PACs)

- Some PACs are small, or non-existent, some meet twice a year. Please send in your PAC or institution reports to Darren if you haven't already. They are important in lobbying for things. **Send PAC minutes or institution reports to Darren.**
- TRU had their PAC but were told afterwards that there's a policy at TRU, dating to 1987, which strictly outlines who and what can and can't be in PACs – e.g. dept members can't be on it, so now an industry person has to lead the group. TRU is hoping for about 6 to be appointed to the committee by BoG. However, there may not be a PAC until Christmas. TRU can't produce anything formal out of anything informal or outside of policy. Eventually some formal minutes will be produced for this committee.
- Jack Moes (COTR, SLP) noted that gathering information from other institutions on their PAC formats may help when speaking to BCCATTA. COTR is looking for a way to include industry in a less formal structure. Often our own program staff outnumber the committee. It is important that they be there, but without input from industry, it's not so helpful. One format may not work for all institutions. Policy should allow some dept specific tailoring to fit with the program. **Jack to gather more info on PAC policies of institutions and bring to BCCATTA.**
- Camosun has a fairly robust PAC, but it's hard to get the key people. Camosun sends out invites and dept members talk to people. At the Camosun PAC, many didn't know what's happening with

harmonization, they're busy trying to run a business. Industry is often shocked when they hear the details. If we can't meet with them and tell them ourselves, how will they know about it?

2.2.2 Other Reports and Discussions

- As a pilot, TRU offered a combined level 3 & 4 together in a blended delivery, four weeks face-to-face, 8 weeks online, but there were challenges. A lot was learned about online education, what to do and not to do about blended courses. The online portion was difficult as students were from across the country, from different time zones. TRU didn't get many students to take the program (24-25 students over 2 years) and offered it for free (free books & tuition). Students liked the format, according to surveys, but it wasn't as successful in the end. SLEs were a challenge. Student success was about 50% on the IP. The format doesn't fit TRU, other institutions, or the ITA.
- Some institutions are seeing movement from outside their usual catchment area. Once ITAC dictated which institution a student would attend. This was good for institutions but when ITAC became ITA, this was challenged by employers. Waitlists are tough. Students apply to all institutions to try and get in. It was suggested that more efficient funnelling to where they can get in would be helpful. Jack noted that due to the high costs involved, apprenticeship authorities across the country have moved away from scheduling and left it to the institutions to deal with. Trades Training BC (TTBC) is a one-stop shop. Not all institutions are as good at keeping their waitlists up to date, but the TTBC website helps.

3 EXTERNAL REPORTS

3.1 Pipe Trades System Liaison Person (SLP) – Jack Moes

- BCCATTA, TTBC, and trades Articulation committees are linked. The SLP gathers information from all of these groups and shares the info with all groups.
- TTBC is owned by the institutions, not by ITA. TTBC came into being with ITA, driven by 14 public trades training institutions, to have a coordinated unified voice. It is a database, a consolidated resource, with data from all institutions, and has planning tools for institutions. It's also ITA's first source of information on all of the offerings of the institutions. Although info on several future years may be in the database, only the current year's info shows to the public.
- In last 3-4 years, an additional role for TTBC is the development of instructor resources, created by subject matter experts, with funding from AVED. TTBC has also started developing good, affordable student resources with harmonization in mind. Working on transferring training resources from ITA to TTBC. Not sure how that will unfold, in view of copyright and intellectual property rights, etc. There has to have a business case behind it – it's unclear what role of TTBC may be in that. May vary from trade to trade. TTBC and BCCATTA working on collaborating on resources. A lot of discussion at BCCATTA about the articulation committees, especially around harmonization and implementation timelines. Many articulation committees said that implementation was coming too fast. This went to BCCATTA. Deans have another layer of voices, as do the presidents of institutions. This helps drive things. **Jack will follow up with Darren after tomorrow's meetings.**
- Harmonization a big topic at meetings. ITA has attended to share what's become large on their agenda. They'll be reviewing the funding framework for TTBC. BCCATTA is interested in discussing funding and format, as well as funding of FND programs. In other provinces, FND programs are not run by apprenticeship organizations but are funded by Advanced Education. This meets the needs of different regions.

- The energy step code with respect to trades is a topic of interest. The number of women and Indigenous people in trades another significant topic. Will probably see programs to increase numbers in WITT & IPTT.
- Compulsory trades. BC is unique in not having these. Discussion about whether some trades should be considered as compulsory.

3.2 BCWWA Report – Edward Christie

- Edward, certification and IT coordinator for BCWWA, liaises with 10 training institutions. Edward gave a presentation on BCWWA proctor training (see attached). He spoke about the online career centre where employers can post and apprentices can find jobs. See BCWWA.org for more details.
- It falls to a municipality to follow the CSA guidelines (or not) for CCC; it's not enforced by a central committee. Darren asked Edward to request a geographical map for jurisdictions that are active or not from BCWWA.

3.3 TSBC Report – Rick Vanier/Ryan Milligan

- Ryan and Rick, the 2 safety managers for Technical Safety BC, gave a presentation (see attached) and reviewed the roles of Safety Manager, Technical Coordinator, & Senior Safety Officers. [Note: TSBC used to be Safety Authority BC. There are no changes to certifications as a result of the name change.] Apprentice certifications are the ITA's responsibility; GAS certifications are TSBC's responsibility. Apprentices can go to website and find out about where to apply and where to write certification exams. Several updates to GAS info since last year's articulation meeting. The website is updated as necessary (e.g., anything rescinded is marked as such). Tech talks coming to the region in the fall. Intro to Tech Safety for 4th year apprentice course – safety officer comes in and talks to the class for about an hour.
- Rick talked about TSBC creating guidelines re consistentizing training duration and content, based on feedback at last articulation meeting. **Darren and Rick to discuss further.**
- Implementation dates provided. Changes coming in April, would like info by end of December. Institutions will be prompted by TSBC to follow the necessary steps.
- Rick talked about changes to the GAS B & A syllabi. Gas A should be ready by fall 2018. Looking for articulation committee members to participate in the working groups, e.g. building the exam bank, etc. TSBC provides funding for participation. Will think about how to overcome distance to involve more people who may be able to be involved remotely.
- In 2019, TSBC will offer electronic exams in all regions, to be written at TSBC offices only, using Moodle. Will build a bank of questions and so each person can get diff questions. Potential for certified test centres at institutions.

3.4 ITA Report – Angela Caughy & Colleen Rogan

- Presentation on Harmonization of Pipe Trades. See attached presentation.
- We're facilitators of a development process and want to involve as many people as possible. We design the exams, content, outlines, etc. (except GAS).
- ITA will provide financial support for training providers for 5 days of F2F (not self-study) gap training. No separate grade for gap training. ITA is not managing the gap training and doesn't require document assessment. Institutions can roll out the gap training in their own formats, weekends, evenings, etc.
- *ITA amendment: ITA will be managing any gap training that is face to face and over 17 hours in length. Training providers will be required to provide a document assessment verifying gap*

training completion. The document assessment can be found here:

[http://www.itabc.ca/sites/default/files/docs/apply/forms/CS002.2%20-](http://www.itabc.ca/sites/default/files/docs/apply/forms/CS002.2%20-%20Technical%20Training%20Result%20Report%20%28online%20fillable%291.pdf)

[%20Technical%20Training%20Result%20Report%20%28online%20fillable%291.pdf](http://www.itabc.ca/sites/default/files/docs/apply/forms/CS002.2%20-%20Technical%20Training%20Result%20Report%20%28online%20fillable%291.pdf)

- SPRI is moving from 4 levels to 3. Someone from CL 2 would do HL 2 then HL 3. Still 4 “years” for the ones who started in CL. Going from CL 1 to HL 2 (transition plan coming in July), there is a bit of missed info, but ITA will review whether this will be F2F or self-study. Angela will look into the gap info again as 2 weeks of training will be missing from level 1 if they go from CL 1 to HL 2. CL & HL 3 will be running together (dual streaming) when implemented. Training Investment is working with institutions to support smaller enrollments. **Jamie & Angela will further discuss gaps.**
- Once in HL, a student must stay in HL; can’t go back and forth.
- GAS B – not harmonized, just a new program. New level 1 next year, level 2 in 2020.
- **Send any thoughts on GAS and other Pipe trades harmonization or not harmonization to Darren, who will send to Colleen.** It will be difficult to harmonize gas. GAS A will become Red Seal, B is not. Some provinces do this already.
- **Colleen to get clarification on whether a BC student can go to another province to get a Red Seal in Gasfitting.**
- An apprentice must have a CofQ in GAS B to do RS GAS A. ITA can invigilate a challenge exam for BC students who take the program in other jurisdictions IF the other jurisdiction offers a challenge program. Rick: not all jurisdictions meet TSBC’s standards or code. Darren: all institutions want the RS for GAS B and RS for GAS A. Our PAC contractors want our Plumbers/Gasfitters to have a credential. We told our PAC that ITA wants industry feedback, but our contractors are saying we need to talk to more people from industry. Angela: contractors ITA met with didn’t want RS. Had to revise and modify the plan countless times. We can see how RS fits in the future work plan, but this is not the time. Colleen: we had designed a 28-week GAS program, but that didn’t work for contractors. We were told in no uncertain terms not to include GAS in PLMB, STMP, or SPRI. Are you saying that you want the option to have a GAS B RS ? Darren: Yes. The stand-alone, direct entry Gasfitter apprentices want the RS, the ones who don’t go through the Plumbing program. in Ontario, there are thousands of GAS technicians. We should maybe try to foster the GAS-only apprenticeship. Colleen: how many institutions could run a GAS-only apprenticeship? Okanagan, BCIT, Camosun (TRU every 2nd year). Colleen: we’ll take this info on GAS back for further review. Rick stated that students must have GAS B for 2 years before they can write the GAS A exam. Can do GAS A training within the 2 years, based on date that GAS B license was issued.
- Enrollment stats were reviewed for each Pipe trade. Even though 4th year apprentices write and pass the IP, they’re not certified until they have all their hours signed off and an RFC is sent to ITA by the employer.
- IP and SLE exam stats were presented. Provincial Pass Rate is based on the number who pass each program each year; Provincial Average is the average grade for each Pipe trade.
- TTBC, BCCATTA, ITA, and AEST are in discussion about how to move forward in a sustainable way with resource development. Demand for resources has gone up across the trades, but revenue from resource development has gone down. ITA has expedited Electrical resources for implementation in January. Carpenters are still working with Open School BC. Will have to consider what to do with Pipe trades resources. Some are opting out of using our resources, using textbooks, maybe photocopying, maybe other things. Will suggested that we could look outside this group, outside this province, to create consistent materials. Colleen: Maybe Jack could take this back to BCCATTA. Jack: it’s the business model that has to work to make it possible.

4 PRESENTATION

4.1 CSA Group – Gas Training Materials – Karin Fahey & Cindy Frabotta

- Karin and Cindy gave a presentation on CSA (csagroup.org) & GAS materials
- In Ontario, 3 levels to Gasfitting: G3, G2, G1. (G3 + G2 = BC's GAS B; G1 is our GAS A.) Materials updated 2015, updating again this year. Will start with G3 and move through G2 and G1 as time goes on. Hoping to have G3 ready for September 2018. Roughly half of students go on to G1. Separate module for liquid propane. CSA can customize and repackage manuals for each province.
- Most schools are using CSA materials for GAS curriculum. Darren asked if any schools are offering B149.2. TRU has it in their resource library. Karin: we often package .1, .2 or .2 & .3. We can customize a package with .2 & electrical code or similar. Not all Gas students buy electrical code, even though it makes up 10-20% of exam. Will asked if BC could have a specific subsection for CSA electrical code. Tim C: the other committee I sit on is dead-set against this idea, as not all context is provided. Karin: CSA can do a customized version for BC. We can move things around and package it as you need, but we can't split modules. CSA can do a better price if everyone uses the same package.
- There has been no gap analysis of TSBC code vs CSA code. Gaps are not insurmountable, but there are gaps between what we currently have and what we'll need. CSA will need our input to be able to write the code. Rick acknowledged that TSBC would support CSA covering the syllabus, right tools and equip, exams to TSBC's standards. Karin: we have the funding and resources to do the work. A curriculum subcommittee of the articulation committee could address this further. Rick and Ryan interested in being involved. **Karin suggested that TSBC contract CSA to do the code.** Darren: if you have feedback or questions, contact Karin.
- **Darren will send committee members an email with details on what Camosun will be using.** It would be good if all institutions used the exact same materials.
- **TSBC informally agreed to adapting Ontario curriculum IF it meets TSBC curriculum standards.**

5 ADJOURNMENT

5.1 Meeting Adjournment: 3:15 pm

- Moved: Scott Armour
- Seconded: Greg Wirachowsky



Pipe Trades Articulation

June 20, 2018

Day Two Meeting Minutes

Meeting Date: June 20, 2018
Location: Camosun College
Meeting Time: 8:30am – 3:00pm
Committee Chair: Darren Vaux, Camosun College
Vice Chair: Brad Oliver, Okanagan College
Recording Secretary: Cindy Drover-Davidson

- Participants:**
- **BCIT:** Tim Carson, Mark Overgaard, Steve Gilles, Lyle Reid, Dave Dunn
 - **Camosun College:** Darren Vaux, Jamie McPherson, Al Paterson, Scott Armour
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 - **Pacific Vocational College:** Eric Bradbury
 - **Piping Industry College of BC:** Will Schwarz
 - **Thompson Rivers University:** Paul Simpson, Pat Barringer
 - **University of the Fraser Valley:** Rod Smith

- Guests:**
- **BC Campus:** Amanda Coolidge
 - **BC Council on Admissions & Transfer:** Ruth Erskine
 - **Camosun College:** Sue Doner, Susan Chandler
 - **Canadian Institute of Plumbing & Heating:** Jason McKenzie
 - **CSA Group:** Karin Fahey, Cindy Frabotta
 - **Trades Training BC:** Jim Reed

- Regrets:**
- Rod Lidstone (Camosun College)
 - Jack Moes (College of the Rockies)
 - Keisha Reichert (Northwest Community College)
 - Lino Santoro (Viega LLC)
 - Sven Rhode (Kwantlen Polytechnic)

6 ADMINISTRATION

6.1 Welcome

- Darren welcomed the group to the second day of articulation meetings at 8:34 am.

7 PRESENTATIONS

7.1 Overcoming Barriers to Intercollegiate Collaborative Practices to Support Student Success – Tim Carson

- Tim gave a presentation on his paper re this topic (see presentation). Content included details on the following:
 - There is little writing by tradespeople about tradespeople in vocational education and training, but research shows that we don't collaborate very well, even within our own institutions.
 - Some drivers for success:
 - 1) Trust, internal to dept and between institutions.
 - 2) Shared vision of what we do.
 - 3) Culture shift. This is the hardest thing to do – can't change culture without trust, can't build culture without a shared vision.
 - Sometimes making change means you're the first one to do it. How to succeed: keep talking, build a shared vision. We used to meet about best practices. I'd suggest articulation committee come up with strategies to collaborate. We need to try the strategies to see if they work, to look at models from other institutions, even outside the province (e.g. Saskatchewan Polytech). Some instructors are afraid to share their ideas, or they want their "competitor" to prove their experience and ability.

MOTION: In the interests of harmonization, Pipe Trades articulation chair will add a third day to next year's articulation agenda to be used for discussion on collaborative practices.

Moved: Paul Simpson

Seconded: Lyle Reid

All in favour – unanimously carried

- Tim: we can use the time to discuss how to manage a classroom, to share data, etc. Darren: We'll schedule a full day for this at the beginning of the meetings, the Tuesday, then Wednesday & Thursday for articulation, a three-day event.
- ***A working group/subcommittee to be formed from this articulation group to discuss/brainstorm shared best practices and strategies for collaboration. Send ideas on content to Darren.***
- ***Tim Carson will facilitate the first session.***

7.2 Open Education Resources (OER) Toolkit for Trades Instructors – Sue Doner & Susan Chandler

- Sue and Susan gave a presentation (see attached).

7.3 Trades Training BC – Jim Reed

- TTBC created in 2005 by presidents of trades training institutions. Has morphed into a best practice and collaboration system for Post Secondary. Training plans from all institutions are loaded into TTBC to meet system and institutional targets and have exceeded targets every year since 2005.
- ITA approached TTBC about creating student resource materials. Discussions with Deans, Presidents, and BCCATTA. TTBC has been working on the project since March 2017. Worked with

many instructors and have developed Electrical level 1. Electrical level 2 development is underway, with completion expected by December.

- TTBC can roll funds over from one fiscal to the next. Needs system support, system needs to buy the materials – royalties generated by sale of trades textbooks – to build a fund for further development. It costs about \$300-400K annually to develop materials. TTBC needs to be in control of royalties. We need to measure whether the public system feels it's important enough and good enough. We're proud of our materials, they are high quality. The system has to drive whether we can continue. Without financial resources, may have to hand back to ITA and abandon the project. May have to negotiate a two-year license agreement. Or maybe form a partnership with an institution to publish materials. We're in discussion with Queen's Printers. Looking at idea of development even outside the province to gather more royalties and support for system. A viable business plan, legal structure, and copyright info among the pieces to be presented to presidents in fall. TTBC has had meetings with Open School re royalties.
- Greg: this primarily evolved out of ITA's decision to enact our SLEs. They said institutions could just use the program outline to teach, regardless of choice of textbooks. Institutions questioned how to do this, so common content was developed. We need to determine how to work with TTBC and yet keep a free aspect.
- Paul: can we expect materials to be ready for Pipe trades implementation in April 2019? Jim: we have government funding for harmonization phases 3-5. Summer is a good time to get this done.

7.4 BC Campus – Amanda Coolidge

- Amanda gave a presentation on affordable and accessible education and open textbooks (see attached). Culinary RS books have been available on Open Source for two years. Materials are free in digital format, have to pay for printed copy. Institutions own the copyright to revise or refresh info as desired. Creative Commons is license structure to use and re-use materials, links, etc.
- Will talk to boss about working with TTBC about development of free student resources. BC Campus is funded by gov't and through a philanthropic org. Institutions don't want to support two organizations to do the same thing.

7.5 BC Council on Admissions & Transfer (BCCAT) update – Ruth Erskine

- Ruth is Committee coordinator for BCCAT. Currently 66 articulation committees in BC. Each committee has its own webpage, which houses its articulation minutes. A Moodle site is available for internal use by committees as a repository, internal use only for each committee, no public viewing. Useful for sharing with new chairs. You can discuss whether you'd like to have own site.
- This year a new transfer credit system for use in BC Transfer Guide. 700,000 agreements on the system, updated daily. More functionality on system now to house interprovincial and international agreements as well. BCIT is piloting this.
- BCCAT has about \$15,000 available in Transfer Innovations funding. For this group access the funds, may want to look at engaging other institutions in Dual Credit and see how it's working. Another idea is open education resources. Articulation chair could apply. See BCCAT website for details. Applications due 3 weeks before meetings. Next meeting is Sept 21, following one is Jan 23. Darren: I contacted Meg [from BCCAT] about this. It would be some seed money. Idea was gap analysis re harmonization. Some other money provided to review this. But could develop further ideas.
- BCCAT has new interest in the pathways students take from Trades to Academic courses. Request for proposals to be posted on BCCAT website in the near future.

8 OPEN DISCUSSION

8.1 Open Discussion – Harmonized Curriculum Needs – New Program Outlines & Textbooks

- Brad has seen the new level 2 materials but hasn't used them yet. We want to continue to improve them. The common PLMB curriculum project means continuing with TTBC. Level 1 HL PLMB should be ready by April 2019. TTBC is funding the revision. We need to lobby TTBC to complete levels 1-3, with hope that BC Campus will also go down that road. Darren: I see BC Campus as recreating an old idea, but no plan to go forward. Paul: but maybe BC Campus and TTBC can work together, as Amanda mentioned. It's all about money. We stay with TTBC to create the rest of the materials and deal with the royalty piece and then once fund is built, transfer to BC Campus. Darren: the numerous errors in Levels 1 & 2 won't be fixed right now, maybe in a couple of months. Jamie: At 4-day Sprint in July, will be working on developing the new material for PLMB, STMP, SPRI. **Darren will send out the layout after the Sprint.**
- Darren: How do you feel about harmonization, frustrated or as an opportunity to refresh? Tim C: mixed feelings at BCIT. Frustration isn't about harmonization; the problem is lack of provable communication by ITA. The word harmonization is not appropriate, as it's not countrywide. And it's not harmonization for RS, as we don't have a RS for GAS. Will: There was a lot of dispute about GAS in the discussions from industry. Yet ITA makes it sound like we're the ones behind it. Nobody will come back to do GAS. Don't know who's pushing the GAS agenda. We're not happy with it. Darren: our PLMB outline hasn't changed in 30 years and is out of date. Unfortunately, some content has been removed in the new iteration. Carpenters hate harmonization. They feel there's no benefit.
- Darren: Open School has videos, comments, images, a repository of instructor materials. Paul: Is anybody using the binders? Rob: Prices have decreased dramatically with white binders. Darren: do you want to adopt them? Tim C: the materials are no better or worse than the old ones. Greg: in the past, BCIT said they'd support the use of these books, and we all were on board (except PVC), but BCIT didn't follow through. Rod H: if we don't use them, we'll never get the royalties moving forward. Students are buying one set and photocopying for the class. Greg: Or they're re-selling, just copying the self-tests. Rod: at our institution, we tell our students not to purchase any books until day 1. The books are all packaged for them by their student number. That way we know who's buying or not. We tell them it's mandatory. They can't buy them anywhere else, and can't have used stuff. Rob L: our bookstore tends to run out of books all the time. Tim: has there ever been a letter from the articulation chair to TTBC saying we agree to use the new books? Yes. **Darren to write a formal letter to support use of current BC Plumbing modules throughout public institutions.**

9 NEW BUSINESS

9.1 New Business

9.1.1 Revenue Collection

- **Darren will contact Jack Moes, SLP, and ask that he approach BCCATTA to formalize a means to collect revenue from Trades Training students to generate and maintain learning resources.**
- Rob L: if we had free books, we'd have a head tax to cover costs instead of paid-for books. PICBC used to have pre-loaded tablets, but they were terrible so are trying to go paperless. Looking at a shared drive where students can access and download info.

9.1.2 Collaboration Day

- **Send Darren input on what to talk about on Collaboration Day.**

- **Tim volunteered to facilitate the first Collaboration Day. Will work with Brad and flesh out the ideas. Will contact people to work out logistics and ideas.**

9.1.3 Other News

- Apr 22-25, 2019 - Okanagan is hosting National Pipe Trades Instructors convention in Kelowna.

9.2 Next Meeting Date & Location:

- Tentatively June 25-27, 2019
- Kwantlen (TBC with new Dean after July 9)
- Whistler in 2020

9.3 Motion to Adjourn at 2:38 pm

- Moved: Tim Carson
- Seconded: Mutual consent