

# Heavy Mechanical Trades Provincial Articulation Committee

## Minutes

University of the Fraser Valley  
Trades & Technology Centre, Building S  
5579 Tyson Road, Room 203  
Chilliwack, BC V2R 0H9

### **Present:**

Jamie Ubell-UFV, Don Weitzel-UFV, Doug Noble-OKC, Bill Matzelle-OKC, Dave Gratton-Consulab, Bruce Thompson-BCIT, Grant Eveneshen-CNC, Ed Ditner-NLC, Doug Haycock-NLC, Jason Sutton-VIU, Andy Gullen-Selkirk, Mike Kerbrat-CMTN, Paul Cory-VCC, Brian Phillips-VCC, Spencer Mellor-COTR, Mike Shields-TRU, Lyle Hirowatari-TRU, Paul Mottershead-VIU, Chris Bey-ITA, Colleen Rogan-ITA, Kristen Holladay-ITA, Rick Cyr-VCC, RoberRiquelme-VCC

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**Day 1 – June 11, 2019 8:30am, Call to Order and Welcome by UFV Dean – John English**

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### **1. Introductions/welcome**

- Round table with self – introductions

### **2. Approval of Agenda**

*Moved:* Doug Noble      *Seconded:* Lyle Hyrowatari      *Carried:* <>

### **3. Approval of minutes – June 12<sup>th</sup> & 13<sup>th</sup>, 2018**

*Moved:* Lyle Hyrowatari      *Seconded:* Andy Gullen      *Carried:* <>

### **4. BCCAT report – read letter from Director of Transfer and Articulation**

Jamie read BCCAT report



expanding pathways  
for BC students

# SPRING UPDATE 2019



Mr. Jim Hamilton, BCCAT Council Co-Chair, and Elder Margaret George chat with Hon. Melanie Mark at the JAM

## ARTICULATION NEWS

### New Downtown Venue for the 2018 Joint Annual Meeting (JAM)!

Last year's JAM was held at the Pinnacle Harbourfront Hotel in Vancouver and was the best attended ever, with over 160 attendees. The keynote speaker was Dr. Joel Heng-Hartse from SFU whose subject was *"Beyond ESL. Support for Both Multilingual and International Students in BC Higher Education."* We were also delighted to welcome Hon. Melanie Mark, Minister of Advanced Education, Skills and Training. Details of presentations can be found on the BCCAT website at [bccat.ca/articulation/jam](http://bccat.ca/articulation/jam)

### 2018 BCCAT Transfer Awards

The 2018 BCCAT Transfer Awards were presented at the JAM to the following deserving recipients:

- **Dezene Huber** for the Transfer & Articulation Community Leadership Award;
- **Adrian Lipsett** also for the Transfer & Articulation Leadership Award;
- **Rick Chester and Norm Shaw** (Joint Award) for the Leadership category.

Further details can be found on the Awards section of the website at:

[bccat.ca/system/awards](http://bccat.ca/system/awards)

## HOLD THE DATE!

### Celebrations Planned for JAM 2019

In celebration of BCCAT's 30th anniversary, special events will be scheduled for this year's JAM, which will be held at the Pinnacle Harbourfront Hotel in Vancouver on Friday, November 1, 2019. Watch for various announcements and information on the BCCAT website over the summer months!



BCCAT's Mike Winseman and Rob Fleming, with President of Douglas College, Kathy Denton, look on during presentations at the 2018 JAM

### New BCCAT Appointment

In October of 2018, Mike Winseman was appointed to the new role of Director, Transfer & Technology, following Meg Stainsby's return to Douglas College. Mike will oversee all transfer-relat-

ed issues and report to the BCCAT Transfer and Articulation Committee.

### Technology Update

Ground-breaking work is currently under way with UBC on piloting the capacity of BCCAT's new version of the Transfer Credit System (TCS) to house agreements established with institutions outside of the BC Transfer System and the province. This data will then be available to other institutions.

### Secondary to Post-Secondary Transitions

BCCAT staff attended the BC Graduation Program Forum held last fall which was hosted by the Ministry of Education, the BC Registrars Association (BCRA) and the Senior Academic Administrators Forum (SAAF). The forum was well attended by representatives from post-secondary institutions and school districts.

### 2019 Articulation Season

Those committees that have generated Flexible Pre-Majors (FPMs) have been asked to review FPM functionality within the post-secondary system and to make recommendations on the future of FPMs.

Articulation Committees are also being asked to review the currency of their courses/programs on the BC Transfer Guide and to ensure that their ICPs have the most current information.



Royal Roads University

## TRANSFER INNOVATIONS (TI) PROJECTS

### Tourism/Hospitality Common Core:

This project aligns core learning outcomes with the current requirements of industry and employers. The project is complete and will be posted on the [BC-CAT Tourism webpage](#).

### Modern Languages Learning Outcomes:

A survey is currently being conducted in five target languages to identify core competencies in each. The project is due for completion in December, 2019.

**ABE Steering Committee Learning Outcomes:** this project compares and re-aligns learning outcomes with those of the K-12 new curriculum.

**ABE Adult Literacy Fundamentals Learning Outcomes:** this project builds on the work done by the ABE Steering Committee to further streamline specific objectives and skills to guide ALF teaching.

**Note:** BCCAT will be reviewing the transfer innovations funding program over the next year and providing recommendations to Council in 2020. In the meantime, TI funding will be on hiatus. Currently funded transfer innovations projects and proposals under way will be unaffected.

## NEW PUBLICATIONS



**International Credit Practices:** The report, conducted by Joanne Duklas, examines the policies and practices of processing international credit transfer requests in post-secondary institutions, primarily in BC, and provides recommendations for

collaboration and sharing of best practices. The full report is available [HERE](#) and a 4-page executive summary [HERE](#).

### Issues and Challenges in Interdisciplinary Course and Program Transfer In BC

This report discusses interdisciplinarity and overviews trends in such courses and programs in BC. The report can be accessed [HERE](#).

### Understanding AP Grading in BC:

This report on practices of grading AP courses in BC and the post-secondary performance of students who participated in APs, can be found [HERE](#). A 4-page executive summary is also available [HERE](#).

## ONGOING PROJECTS OF INTEREST

**Survey of Mobile Students:** With the assistance of BC Stats, we are surveying 30,000 students who have changed institutions to better understand their motivations and key considerations when moving, and their experience with credit transfer. Participating institutions will receive reports on students moving to and from their campuses. The survey is planned for early 2019.

**Transfer Student Profile and Performance:** This research will build on BC-CAT's long history of documenting the successful transition of transfer students along some of the province's key learning pathways. The project is ongoing.

**Credits to Graduation:** Six BC post-secondary institutions have provided data on transfer students and direct-entry secondary students who graduated with a bachelor's degree in 2015/16. The goal of the study is to compare the total number of credits obtained by direct entry and transfer students on their way to a bachelor's degree. The project is scheduled for completion by Fall 2019.

**English Language Proficiency:** This project examines BC post-secondary institutions' English-language proficiency standards for admission, other than BC Grade 12 or its equivalent.

Fiona McQuarrie, BCCAT Special Projects Co-ordinator, is examining standards for institutional admission and for admission to academic undergraduate courses, in addition to conducting an extensive literature review.

### The Indigenous Educational Pathways:

This project, led by Stephanie McKeown from UBC, and carried out through the BCCAT initiative on Contemporary Issues on Student Mobility, has been carried out in two stages. [The first phase](#) analyzed existing practices and post-secondary educators' perspectives.

The second phase of the project is currently under way and focusses on indigenous persistence from the student perspective. Focus groups are under way and the report is expected to be complete by the fall of 2019.



*UBC Researcher, Stephanie McKeown, Chief Institutional Research Officer, talks about the Indigenous Education Pathways Project at the JAM, 2018.*

## WEBSITES

**BCCAT Website:** BCCAT's communications team is in the process of improving the functionality and visual elements of the site. Work is expected to be complete by the fall of 2019.

**BC Transfer Guide Website:** The Guide is undergoing an operational review this year, with contractor Plaid Consulting carrying out surveys and focus groups with various types of users to provide feedback and recommendations for improvements to the site. Recommended changes and functionality is expected to be implemented in the coming year.

## **5. ITA Report – Chris Bey & Kristen Holliday**

- Discussion regarding SLE not always successful due to lack of work experience.
- There is no set hours required before taking a level so students are completing levels back to back.





## Agenda

- Harmonization Update
- Future Red Seal Development
- ITA Update
- Apprenticeship Statistics
- Exam Maintenance Process
- Exam Statistics
- Q&A

## Harmonization Update

[Pan-Canadian Harmonization Initiative](#) (ITA Webpage)

Transitioning:	Developing:	Consulting:	Fully Harmonized:
<ul style="list-style-type: none"> <li>Phase 1 – 3</li> </ul>	<ul style="list-style-type: none"> <li>Machinist</li> <li>MVBR</li> <li>Auto Paint</li> <li>Hairstylist</li> <li>RACM</li> <li>Insulator</li> </ul>	<ul style="list-style-type: none"> <li>Cook</li> <li>ICT</li> <li>Partsperson</li> <li>Bricklayer</li> <li>Glazier</li> <li>Roofer</li> <li>Motorcycle Mechanic</li> </ul>	<ul style="list-style-type: none"> <li>Metal Fabricator</li> <li>Ironworker</li> <li>Generalist &amp; Reinforcing</li> <li>Mobile &amp; Tower Crane Operator</li> <li>Boilermaker</li> <li>Concrete Finisher</li> <li>Rig Technician</li> <li>Tool &amp; Die Maker</li> </ul>

**Exceptions:**

- HDET, TTM

Harmonized on trade name, number of levels, total training hours, but stood as an exception on sequencing



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## Future Red Seal Development:

- Canadian Council of Directors for Apprenticeship (CCDA)
  - Interprovincial Standards and Examination Committee (ISEC)
- Red Seal Occupational Standard & National Occupational Analysis
- Phase 1 trades without RSOS
  - Discussion at Sept. AGM



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## ITA Update

## SENIOR LEADERSHIP TEAM

## EXECUTIVE TEAM



Shelley Gray, Chief Executive Officer



Farnaz Riahi, Chief Financial Officer



Rod Bianchini, Interim Chief Operating Officer



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## Apprenticeship Status – HDET Old

Apprentices in System	
Active	23
Inactive	88
Total	111

Highest Level Achieved				
	L1	L2	L3	L4
Active	0	0	1	22
Inactive	0	1	2	85
Total	0	1	3	107



As of Feb 1, 2019

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## Apprenticeship Status – TTM Old

Apprentices in System	
Active	11
Inactive	37
Total	48

Highest Level Achieved				
	L1	L2	L3	L4
Active	0	0	0	11
Inactive	0	0	1	36
Total	0	0	1	47



ita

As of Feb 1, 2019

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## Apprenticeship Status – DEM Old

Apprentice in System	
Active	3
Inactive	15
Total	18

Highest Level Achieved		
	L1	L2
Active	0	3
Inactive	0	15
Total	0	18



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As of Feb 1, 2019

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## Apprenticeship Status – HDET New

Apprentices in System		Apprentices by Region										
Active	1543		OTT	L1	L2	L3	L4	Total				
Inactive	716	North	241	127	85	60	32	545				
Total	2259	SE Interior	196	137	69	101	32	535				
Highest Level Achieved		Island	129	81	69	51	41	371				
OTT	L1	L2	L3	L4	Lower Mainland	259	188	93	124	45	709	
Active	411	428	279	290	135	Other	44	22	15	13	5	99
Inact.	458	127	52	59	20	Total	869	555	331	349	155	2259




BRITISH COLUMBIA





As of Feb 1, 2019

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## Apprenticeship Status – TTM New

Apprentices in System		Apprentices by Region										
Active	757		OTT	L1	L2	L3	L4	Total				
Inactive	385	North	94	35	37	41	8	215				
Total	1142	SE Interior	92	41	34	50	8	225				
Highest Level Achieved		Island	25	10	18	16	7	76				
OTT	L1	L2	L3	L4	Lower Mainland	191	146	119	92	45	593	
Active	170	195	82	166	59	Other	15	9	2	6	1	33
Inact.	247	46	128	39	10	Total	417	241	210	205	69	1142
Total	417	241	210	205	69							

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As of Feb 1, 2019

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## Apprenticeship Status – DEM New

Apprentice in System	
Active	79
Inactive	56
Total	135

Highest Level Achieved			
	0	L1	L2
Active	29	31	19
Inactive	36	14	6
Total	65	45	25

Apprentices by Region				
	0	L1	L2	Total
North	21	18	2	41
SE Interior	6	4	5	15
Island	6	3	3	12
Lower Mainland	30	20	13	63
Other	2	0	2	4
Total	65	45	25	135



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As of Feb 1, 2019

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## Apprenticeship Status – TTT

Apprentices in System		
	OLD	NEW
Active	2	33
Inactive	2	37
Total	4	70

Highest Level Achieved - NEW			
	OTT	L1	L2
Active	16	14	3
Inactive	32	2	3
Total	48	16	6

Apprentices by Region – NEW				
	OTT	L1	L2	Total
North	3	0	1	4
SE Interior	5	0	0	5
Island	0	1	0	1
Lower Mainland	39	15	5	59
Other	1	0	0	1
Total	48	16	6	70



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As of Feb 1, 2019

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## Exam Maintenance

Action report = a tool to compile relevant data, record feedback from workshop participants, and to record changes or corrections made to exam questions

Cross-reference all data to identify issues, isolate patterns, and determine next steps

Read over exam content (grammar, readability, etc.)

All information, when interpreted together, guide when and how exams are maintained.

Blue sheet feedback

Item analysis, statistics

Feedback & comments from industry, instructors

A OCCUPATIONAL SKILL 22

4	15	0	6	0	7	2
MCS	0.13	0.00	0.40	0.00	0.47	0.13
1.00	79.13	0.00	80.33	0.00	78.86	76.50
-	-0.231	-	+0.219	-	-0.058	-0.231

B. Your feedback: Please be as specific as possible. Include the question number of your concerns. Use both sides of the paper if you need more space.

B. Your feedback of your c

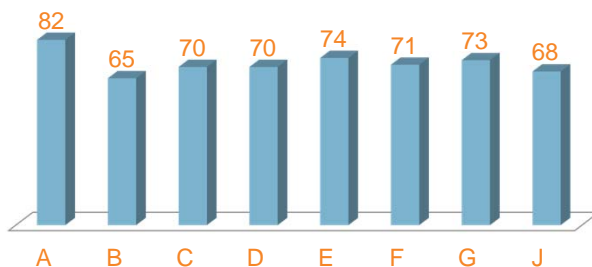
Well put together  
question 15: A B and C ?



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## HMT Level 1 SLE Stats

■ Avg % by GAC



Results are for first-time writes for those writing with a class.

**Pass Rate:**

62% (247 writes)

**Average Score:**

72%

**2017 Results:**

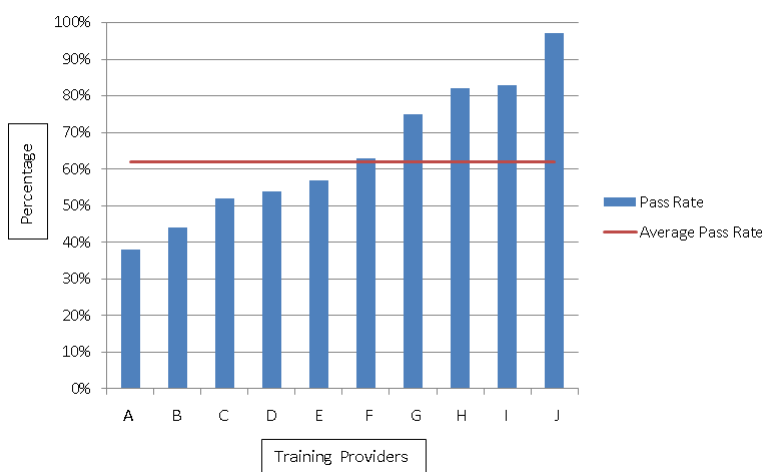
46% Pass Rate

68% Average Score



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## HMT L1 - Pass Rate Graph (2018)



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## HMT L2 SLE Stats

<b>GAC D</b>	<b>73%</b>
<b>GAC H</b>	<b>74%</b>

Results are for first time writes for those writing with a class.

**Pass Rate:**  
65% (537 writes)

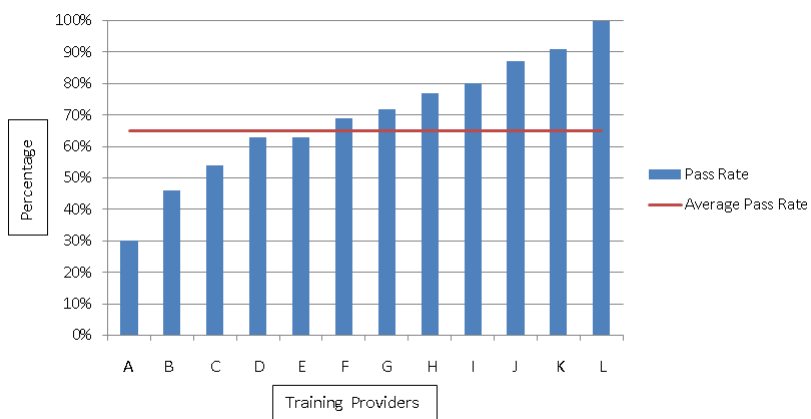
**Average Score:**  
73%

**2017 Results:**  
50% Pass Rate  
69% Average Score



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## HMT L2 - Pass Rate Graph (2018)



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## HMT L3 SLE Stats

**GAC I** 73%

Results are for first time writes for those writing with a class.

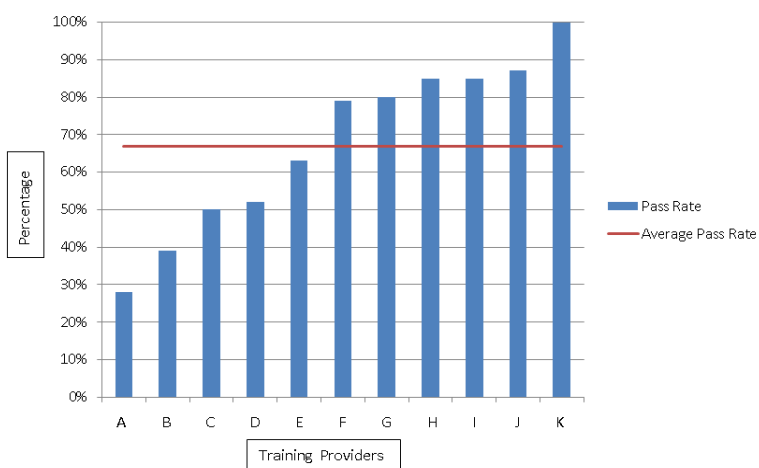
**Pass Rate:**  
67% (498 writes)

**Average Score:**  
73%



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## HMT L3 - Pass Rate Graph (2018)

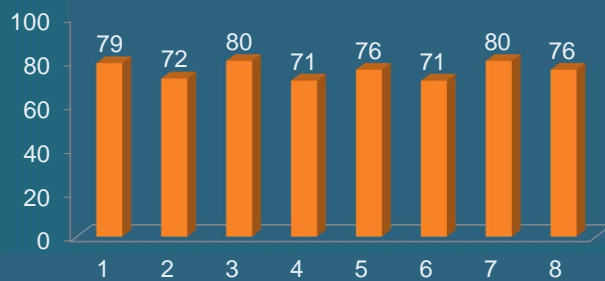


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## Interprovincial Exam Stats - HDET

Jan 2018-Dec 2018

### Provincial Average % by BLOCK



**National Pass Rate:**  
61%

**Provincial Pass Rate:**  
79% (260 Writes)  
**Provincial Avg Mark:**  
75%

BC results are for first-time writes for those writing with a class. National results include both apprentice and challenger writes.



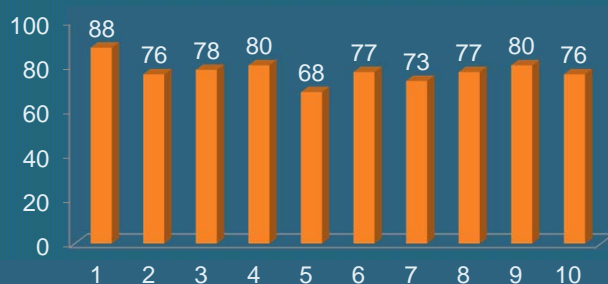
20



## Interprovincial Exam Stats - TTM

Jan 2018-Dec 2018

### Provincial Average % by BLOCK



**National Pass Rate:**

49%

**Provincial Pass Rate:**

80% (128 Writes)

**Provincial Avg Mark:**

77%

**Note:** BC results are for first-time writes for those writing with a class. National results include both apprentice and challenger writes.



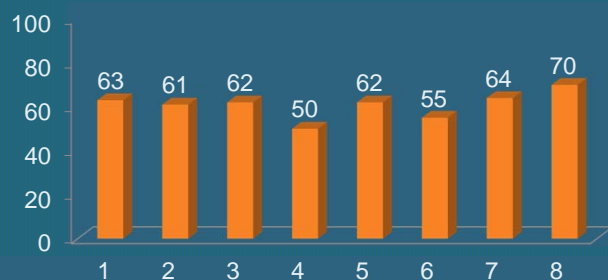
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## Interprovincial Exam Stats - TTT

Jan 2018-Dec 2018

### Provincial Average % by BLOCK



**National Pass Rate:**

26%

**Provincial Avg. Mark:**

60%

**Note:** BC results are for first-time writes for those writing with a class. National results include both apprentice and challenger writes.



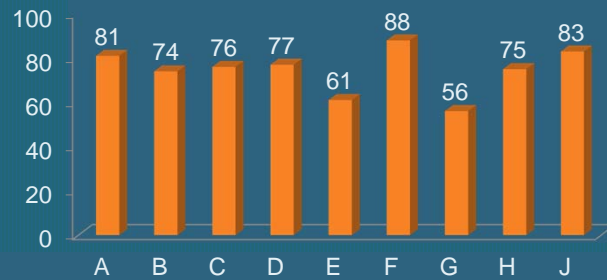
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## CofQ Exam Stats – DEM (HMT)

Jan 2018-Dec 2018

Average % by GAC



Average Mark:

75%

Results are for first-time writes for those writing with a class.



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ita  
YOUR TICKET.  
itabc.ca

*Break*

**6. Read report from Chris Teskey on status of Foundation Learning Resources project**

**7. Reference material for each trade – review list on ITA outlines**

- CDX – instructors should be aware CDX has text to voice features online as well as new and updated animations and videos

**8. SLP Report – Paul Mottershead Report**

- Queens printers royalties have been moved to ITA.
- Albata stopped updating for the last 3 years, but are updating their curriculum now.

*Lunch*

**9. Bendix presentation**

**10. Skills competition report**

- Provincially-Brendan Frith
- Nationally-Lloyd Babcock

18 April 2019

Hello Everyone

What a great event again this year, Thank you everyone!

Solid effort and good attitude from all the competitors resulted in a tight race and the highest overall average scores we've had in our competition. In the end our top three were:

Bronze – Cody Mayo - OKC

Silver – Riley Nairn - OKC

Gold – Calvin Skjeie – TRU

Best Regards,

Brendan Frith

Technical Chair

Heavy Equipment Service

Skills Canada BC

## Skills Canada National Competition 2019

This year's competition was in Halifax NS, running May 27 and 30. There were 11 competitors in the Heavy Vehicle competition. There were also 2 competitors returning from last year to compete to be the team Canada representative at the World competition in Kazan Russia in August. This something new for skills Canada. The two returning competitors were the two highest placing competitor who are age eligible for Worlds. To compete at Worlds the competitor must be under 23 at the time of the World competition.

There were 6 tasks for the competitors, engine, electrical, hydraulic, under carriage, drive train and workplace practices. Each tasks was 2 hours long, so each day there were 3 tasks. The competitors were from all types of workplaces, OEM shops to small shops to mines.

Calvin Skjeie, who works for Finning, from TRU representing BC won Gold! The first gold for BC at nationals in the Heavy vehicle competition. Ontario won silver and Nova Scotia won bronze. All competitors did well and it appears to have been a close competition.

Next year the national competition is in Vancouver at the convention centre running from May 27-30 2020. I know Brad Holcik will be looking for help next year. If you get a chance to attend the national skills competition as a coach, judge or spectator, do, you will enjoy the experience.

Next year's skills competition is considered a world skills qualifying year. Which means the top two competitors who are the correct age will be eligible to compete against each other for the team Canada spot to go to worlds in Shanghai China in 2021. I know at TRU we are looking for some young techs to compete at our regional competition, so if they happen to make it to nationals would be eligible for worlds. A benefit to the tech is if they win nationals they receive extra training over the next year in preparation for worlds.

Lloyd Babcock



## **11. Visit to TyCrop Oil and gas equipment manufacturing process**

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**Day 2 – June 12, 2019 8:30am, Call to Order and Welcome**

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## **12. CVSE (Commercial Vehicle Safety and Enforcement) Geoff Ford**

- Highlighted CVSE purposes, course intent, goals areas of focus and updates for the upcoming year
- Geoff asked the HM instructors for feedback regarding best practices and struggles, practicals, and quizzing in teaching the CVSE program
- Geoff drew attention to the CVSE website FAQ's page to answer many of the commonly asked questions, a great resource of information.
- reviewed the DIF Operator Training Course, reminders included the Course intentions, goals and areas of focus.
- CVSE is currently reviewing the possibilities of implementing:
  - a) Training the Trainer
  - b) CVSE delivered course
  - c) Refresher training





# Commercial Vehicle Safety & Enforcement

## Vehicle Inspection Program



**Geoff Ford – A/Manager, Vehicle Inspection & Standards Program,  
CVSE HQ, Victoria**

**June 2019**



# VIP Numbers

1. Annual Inspections: **315,000**

1. *Commercial*
2. *Private*

2. Inspection Facilities: **2,150**

1. *Designated Inspection Facility*
2. *Preventative Maintenance Program*

3. Authorized Inspectors: **6,550**

1. *Trade Qualified Mechanics*



# Authorized Inspector Training Course

Delivered by 14 Training Facilities throughout BC.

- *Motor Vehicle Act*
- Motor Vehicle Act Regulations
- Vehicle Inspection Manual (2016)
- All notices, circulars and bulletins located on [www.cvse.ca](http://www.cvse.ca).





# Course Intent



# Course Goals





# Areas of Focus





# DIF Operator Training Course

Delivered by 14 Training Facilities throughout BC.

- *Motor Vehicle Act*
- Motor Vehicle Act Regulations
- Vehicle Inspection Manual (2016)
- All notices, circulars and bulletins located on [www.cvse.ca](http://www.cvse.ca).



# Course Intent



# Course Goals



# Areas of Focus



# Ideas under Review

*Train the Trainer*

*CVSE delivered course*

*Refresher Training*



Group Input

*Suggestions?*

*Ideas?*

*Concerns?*





# Questions?



*Break*

**13. Institutional Report**

- Each institution presented a report on their school including any institutional updates, program changes, highlights, items of interest and struggles.
- Institutional reports still need to be sent to the chair

**14. CDX Mark Murray**

- Mark presented a power point with HM upgrades, text books, online resources and supports, and new products. If you have questions, further support or resources, contact Mark Murray 1.877.984.6371 or email at [mark.murray@cdxlearning.com](mailto:mark.murray@cdxlearning.com)

*Lunch*

**15. ConsuLab presentation: Dave Gratton**

- Dave gave a hands on demonstration of the new tractor and trailer airboard “HV-125 Air Brake Trainer” to the HM instructors highlighting some of its features and benefits for instructors and students.
- One of ConsuLab’s objectives for designing their products is to provide a “hands-on” learning environment that engages students and instills interest in learning.

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#### **16. Planning for Articulation in 2020**

- Election of Vice Chairman: Lyle Hiruwatari (TRU) made a motions for Doug Noble to be the new Vice Chairman. Seconded by Bill Matzelle and carried by all in attendance. Moved that Doug Noble would be the Vice Chair from today until Articulation 2021. He will assume the roll of Chairman in 2021.
- Location/Host: Selkirk College, Andy Gullen
- Dates: June 16-17, 2020
- Andy will look into travel dates and lodging for all those attending.
- Potential 2021 host for this event: Northern Lights College in Fort Saint John has offered to host the next articulation. Doug Haycock will review with his Dean and bring an update and the next meeting.

ADJOURNMENT: at 2:34pm, farewell and thank you by Jamie Ubell

	Name	Institution	Email
1.	Jamie Ubell	University of the Fraser Valley	<a href="mailto:Jamie.ubell@ufv.ca">Jamie.ubell@ufv.ca</a>
2.	Doug Noble	Okanagan College	<a href="mailto:dnoble@okanagan.bc.ca">dnoble@okanagan.bc.ca</a>
3.	Bill Matzelle	Okanagan College	<a href="mailto:bmatzelle@okanagan.bc.ca">bmatzelle@okanagan.bc.ca</a>
4.	John English	University of the Fraser Valley	<a href="mailto:john.english@ufv.ca">john.english@ufv.ca</a>
5.	Dave Gratton	Consulab	<a href="mailto:dgratton@consulab.com">dgratton@consulab.com</a>
6.	Bruce Thompson	BCIT	<a href="mailto:Bruce_Thompson@bcit.ca">Bruce_Thompson@bcit.ca</a>
7.	Grant Eveneshen	College of North Caledonia	<a href="mailto:Evenesheng1@cnc.bc.ca">Evenesheng1@cnc.bc.ca</a>
8.	Ed Ditner	Northern Lights College	<a href="mailto:editner@nlc.bc.ca">editner@nlc.bc.ca</a>
9.	Doug Haycock	Northern Lights College	<a href="mailto:dhaycock@nlc.bc.ca">dhaycock@nlc.bc.ca</a>
10.	Jason Sutton	Vancouver Island University	<a href="mailto:Jason.sutton@viu.ca">Jason.sutton@viu.ca</a>
11.	Andy Gullen	Selkirk	<a href="mailto:agullen@selkirk.ca">agullen@selkirk.ca</a>
12.	Mike Kerbrat	Coast Mountain College	<a href="mailto:mkerbrat@coastmountaincollege.ca">mkerbrat@coastmountaincollege.ca</a>
13.	Paul Cory	Vancouver Comm College	<a href="mailto:pcory@vcc.ca">pcory@vcc.ca</a>
14.	Brian Phillips	Vancouver Comm College	<a href="mailto:bphillips@vcc.ca">bphillips@vcc.ca</a>
15.	Spencer Mellor	College of the Rockies	<a href="mailto:mellor@cotr.bc.ca">mellor@cotr.bc.ca</a>
16.	Mike Shields	Thompson Rivers University	<a href="mailto:mshields@tru.ca">mshields@tru.ca</a>
17.	Lyle Hirowatari	Thompson Rivers University	<a href="mailto:lhirowatari@tru.ca">lhirowatari@tru.ca</a>
18.	Paul Mottershead	Vancouver Island University	<a href="mailto:Paul.mottershead@viu.ca">Paul.mottershead@viu.ca</a>
19.	Chris Bey	ITA	<a href="mailto:cbey@itabc.ca">cbey@itabc.ca</a>
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