

Heavy Mechanical Articulation Meeting 2024 - Minutes

Meeting Dates:	June 24 & 25_2024
Location:	North Island College, Campbell River, BC
Chair:	Darren Watt (Thomson River University)
Vice Chair:	Don Weitzel (University of Fraser Valley)
Minutes:	Kim Stallknecht (NIC Trades Support Staff)

Heavy Mechanical Participants		
Ryan Munden	Thompson River University	rmunden@tru.ca
Kyle Doiron	TRU	kdoiron@tru.ca
Byron Beaupre	North Island College	Byron.beaupre@nic.bc.ca
Brad Kozubski	TRU	bkozubski@tru.ca
Sean Bellerby	Camosun	bellerbys@camosun.ca
Mike Shields	TRU	mshields@tru.ca
Paul Cory	Vancouver Community College	pcory@vcc.ca
Rick Cyr	VCC	rcyr@vcc.ca
Brad Jannaway	Vancouver Island University	brad.jannaway@viu.ca
Kyle Ward	NIC	kyle.ward@nic.bc.ca
Tony Upton	BCIT	aupton@bcit.ca
Lee Achtemichuk	BCIT	lee_achtemichuk@bcit.ca
Randy Benson	Coast Mountain College	rbenson@coastmountaincollege.ca
Matt Wheatley	NIC	matthew.wheatley@nic.bc.ca
Dominc Perry	College of the Rockies	dperry@cotr.bc.ca
Grant Eveneshen	College of New Caledonia	Evenesheng1@cnc.bc.ca
Don Weitzel	University of Fraser Valley	russ.thompson@ufv.ca
Darren Watt	TRU	dwatt@tru.ca
Bill Matzelle	Okanagan College	bmatzelle@okanagan.bc.ca

Guests		
Jamie Munro	Cummins	jamie.munro@cummins.com
Hanh Luu	Cummins	Hanh.luu@cummins.com
Jeff Curtis	Consulab	jcurtis@consulab.com
Dave Gratton	Consulab	dgratton@consulab.com
Paul Mattershead	SLP (System Liaison Person)	paul.mattershead@viu.ca
Carl Dyke	Lunch Box Sessions	carl@cdiginc.com
Thomas Rizco	Skilled Trades BC	trizco@skilledtradesbc.ca
Tyson Lambert	T-MAR (Vice President)	tysonlambert@t-mar.com
Dirk Meyer	CDX Learning Systems	dirk.meyer@cdxlearning.com

Welcome/Introductions - June 24, 2024

- Darren Watt, Chair, Thompson Rivers University
- Don Weitzel, Vice Chair, University of Fraser Valley
- Byron Beaupre, North Island College

Meeting Called to Order at: 9:01 am

Approval of the Agenda

- Motion to Approve the Agenda: Ryan Munden, TRU
- Seconded: Bill Matzelle, OC

Approval of the 2023 Minutes

- Motion to Approve the 2023 Minutes: Don Weitzel, UFV
- Seconded: Kyle Doiron, TRU

Cummins presentation by Jamie Munro and Hanh Luu – Presentation Attached to the Minutes

Points Noted:

- Internal combustion technology focus
- The future of the industry regarding emissions and regulations
- Targets for zero emissions: Years 2030 – 2040 and beyond
- Alternate fuels, hybrid transmissions, fuel economy, storage systems, refueling stations
- Regulatory Update

Institutional Reports Presented By:	
Okanagan College	Bill Matzelle <bmatzelle@okanagan.bc.ca>
TRU	Darren Watt <dwatt@tru.ca>
UFV	Russ Thompson <russ.thompson@ufv.ca>
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VCC	Paul Cory <dcory@vcc.ca> Rick Cyr <rcyr@vcc.ca>
Camosun	Sean Bellerby <bellerbys@camosun.ca>
Regrets – Selkirk College and Northern Lights College	

Consulab session presented by Dave Gratton and Jeff Curtis
Presentation was live interaction, hard copy not available for minutes

Points Noted:

- Advanced Driver Assist Systems (ADAS) Acronyms Review
- Advanced Driving System model simulation demonstration showcasing specialized and sophisticated software
- Product launch ADAS EV-360 Trainer kit comes with student assignments involving case scenarios, one-hour free online training, meter and safety gloves
- A global company, Consulab head office is located in Quebec and is available for tours and training in their manufacturing facility.
- Consulab is a company that provides professional training ADAS aids for institutions – <https://www.consulab.com>

Paul Mottershead – VIU – SLP (System Liaison Person) Report

Points Noted:

- The BCATTA (BC Association of Trades and Technology Administrators) appoints SLP's
- The SLP role is to report concerns/updates to the BCATTA – who in turn advocates for the Trades Articulation Groups and the Deans of Trades
- BCATTA communicates regularly with Skilled Trades BC advocating for a more efficient, fair funding model, which hasn't been updated for years. With aging equipment and no capital funding available (in 2024) creative solutions will have to be implemented.
- Labour market outlook confirm employers will struggle to find enough skilled workers over the next decade. The BC training system does not have the capacity to address these labour shortages.
- Skilled Trades BC website has a link for students to access Records Books for all trades. A valuable resource to carry students through with their apprenticeships.
- Red Seal exams will transition to online exams

Thomas Rizco, Program Development Officer at Skilled Trades BC – Presentation Attached to Minutes

Meeting Adjourned – 4:05 pm

Moved to Adjourn – Ryan Munden, TRU

Seconded – Kyle Doiron, TRU

Welcoming Remarks – June 25, 2024

NIC Dean of Trades, Dr. Cheryl O'Connell

Meeting brought to order 8:38 am

T-Mar Industries Ltd – Tyson Lambert VP - Presentation

Points Noted:

- Campbell River based T-Mar manufacturing celebrates its 40th year fabricating, machining, rebuilding and manufacturing logging equipment needed in remote, difficult to access locations
- Rapidly changing technology requires highly skilled software and machine programmers to build 3D computer designs, that are impossible to draw on paper
- Presently working on a retrofit for Mosaic Forest Management: a 70 ft high, 185,000 lb - 7280E Yarder; facing design challenges during modifications because components are getting more and more difficult to source. Control systems are being developed in-house at T-Mar to create better efficiency and effectively saving money utilizing this new technology
- Specialized Electrical and Design Engineers gather valuable analytics and data, instrumental information per machine, statistics gathering is hugely important.

LunchBox Sessions – CD Industrial Group Inc. by Carl Dyke - Presentation

Presentation was live interaction, hard copy not available for minutes

Points Noted:

- LunchBox Sessions 'Bite-Sized Industrial Training' specialize in creating precise and relevant content illustrating basic and advanced hydraulic and electrical concepts for a mobile environment
- With 20 years experience, LunchBox provides an expansive library of images, narrated 3D videos and colorful live schematics as visual tools for students who prefer to progress at their own pace and is a cost effective delivery of material without a trainer
- The interactive content, vector graphics, is designed to stay in sharp focus regardless of elaborate zooming capabilities – the videos clarify in 3D before going back to 2D simulations
- Instructors can modify content, create student teams and change course features to reflect (and localize) their instructional process
- This intuitive learning platform for students includes skills and drills/quizzes to enhance their understanding of the hydraulic and electrical world.

CDX Learning Systems Presentation by Dirk Meyer, Account Manager – Presentation

Presentation was live interaction, hard copy not available for minutes

Points Noted:

- Update and revamp in the works to include digital content for Medium/Heavy Duty Diesel Engines, Medium/Heavy Duty Commercial Vehicle Systems and Mobile Heavy Equipment student textbooks.
- Rebuilt using the content, skill drills, flash cards, media gallery for the mobile environment
- Developing a designated e-book site to market as a separate product, useful for students using the physical textbook and accompanying video format
- Encouraging institution bookstore purchasers to start using tokens which automatically sets the students up with their e-books after they pay and create their own account.
- <https://library.cdxlearning.ca> to source subscription models
- Online presentation by Australian animation designer Tim Dunn who describes customization of animation and videos based on the Moodle Book resource – each page has its own URL
- Capacity to customize graphics/text/video has been simplified

Byron Beaupre NIC Report – Report not available at this time

- The final version of the provincially mandated NIC Program Review will soon be completed following 12 months of research, writing, surveys, student reviews and stakeholder's input.
- A lengthy discussion ensued and the NIC team of Byron, Matt Wheatley and Kyle Ward offered to be of assistance to other Heavy Mechanical instructors needing to pursue their own program review
- Once completed the NIC Program Review report will be submitted to the BC Provincial Government for their evaluation.

Chair Darren Watt suggested the next Heavy Mechanical Articulation meeting could happen at TRU, the second week of June, 2025. To be confirmed.

Meeting Adjourned – 2:17 pm

Motioned by Ryan Munden, TRU

Seconded by Kyle Doiron, TRU

Heavy Mechanical Articulation Group then toured NIC trades facility and on June 26, T-Mar Industries.