

SKILLED**TRADES**^{BC}

Mobile Crane Operator (2024)

TRANSITION PLAN v.1

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Abbreviations

2017.L	2017 Mobile Crane Operator program and Level (1, 2, or 3)
2024.L	2024 Mobile Crane Operator program and Level (1, 2, or 3)
CCDA	Canadian Council of Directors of Apprenticeship
ER	Employer sponsor
IPSE	Interprovincial Red Seal Exam
IUOE	International Union of Operating Engineers
MCO	Mobile Crane Operator
NOA	Red Seal National Occupational Analysis
OPSN	Official Program Standards Notification
RSOS	Red Seal Occupational Standard; replaces NOA
SLE	Standardized Level Exam
TP	Training provider
TT	Technical training
TW	Trade worker
WBT	Work-based training

Harmonization Overview

The Canadian Council of Directors of Apprenticeship (CCDA) is responsible for the Red Seal Program, which develops common interprovincial standards and examinations. The CCDA is undertaking the Harmonization Initiative. British Columbia is an active participant in this initiative.

The goal is to substantively align apprenticeship systems across Canada by making apprenticeship training requirements more consistent in the Red Seal trades.

Harmonization Priorities

1. Use of Red Seal **trade name**
2. Consistent **total training hours** (in-school and on-the-job)
3. Same number of **training levels**
4. Consistent **sequencing** of training content, including use of most recent Red Seal Occupational Standard (RSOS).

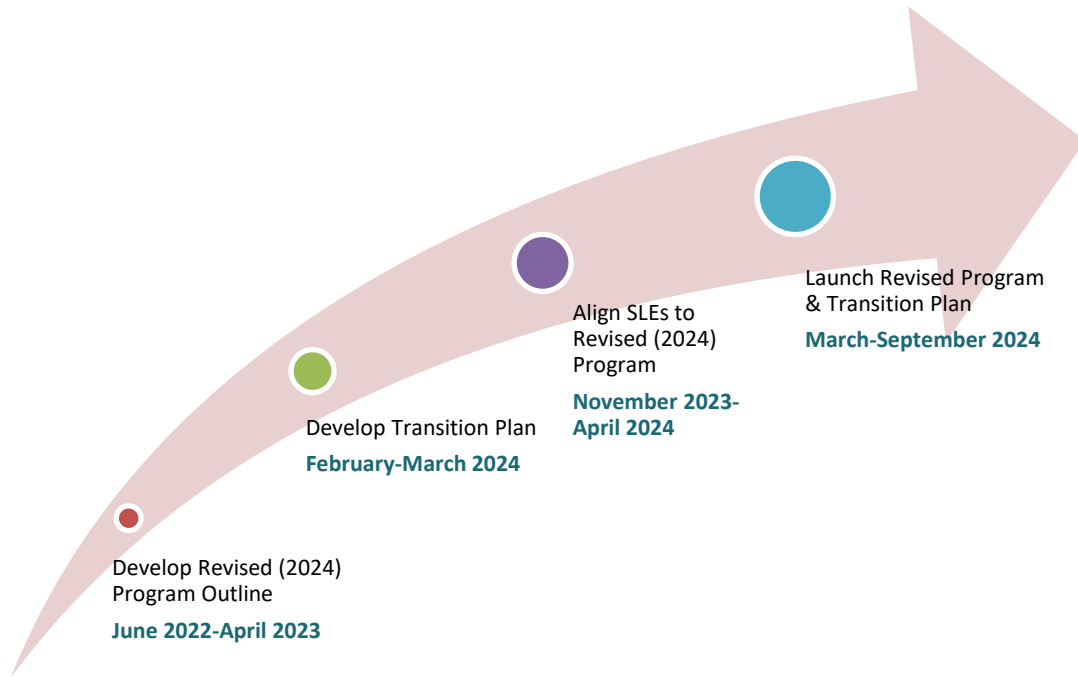
What's changing for MOBILE CRANE OPERATOR	Changing in BC?	What will it be?
TRADE NAME	NO	Mobile Crane Operator
NUMBER OF TRAINING LEVELS	NO	3
TOTAL HOURS technical + work-based training	NO	5,400 hours
TRAINING SEQUENCE order of subjects taught	YES	Some changes to sequence

Transition Planning Process

The re-sequencing of the Mobile Crane Operator program through the Harmonization Initiative has resulted in changes to the sequencing of technical training. The Harmonized Mobile Crane Operator program was initially implemented on January 1, 2017. A revised RSOS was published in 2021. The Mobile Crane Operator program is undergoing changes to align to the revised RSOS.

SkilledTradesBC consulted with the post-secondary training provider that delivers the Mobile Crane Operator program and considered the input of our internal and external partners. SkilledTradesBC and its partners evaluated several transition options and the transition plan outlined in this document was identified as the best option. We have also ensured that there are pathways for all apprentices to complete their apprenticeship.

Program Development and Transition Planning 2023-2024



Training Providers (1)

Operating Engineers Local 115 Training Association (IUOE)

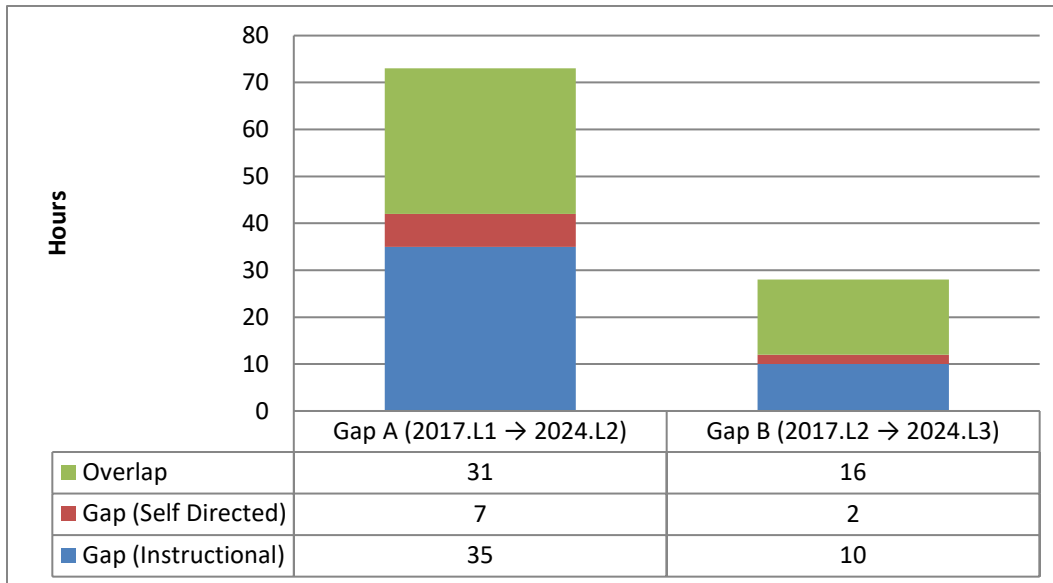
Apprentice Numbers in the 2017 Mobile Crane Operator Program

Program	Status	OTT	2017.L1	2017.L2	2017.L3	Total
Mobile Crane Operator	Active	84	52	0	9	145
	Inactive	83	16	1	12	112
	Total	167	68	1	21	257

Notes apprentice numbers:

1. Numbers are as of **April 1, 2024**.
2. **OTT**: Apprentices who are registered in SkilledTradesBC Portal but have not completed any technical training.
3. **2017.L3s**: TWs who have completed 2017.L3 are not considered in transition planning as they will not be impacted by the implementation of revised training.
4. **Active**: Apprentices for whom activity has been logged in SkilledTradesBC Portal within the last 18 months.
5. **Inactive**: Apprentices for whom **no** activity has been logged in SkilledTradesBC Portal within the last 18 months.

The Gaps



WHAT ARE GAPS AND OVERLAPS?

A **Gap** is an estimate of the hours of technical training content **that an apprentice will be missing if they transition** from the 2017 program to the 2024 program (2017.L→2024.L) at a specific level. A current apprentice who is unable to finish their training in the 2017 program will be transitioned to the 2024 program at designated levels. A current apprentice will only transition to the 2024 program once and so will only face a gap in their training at that one point.

Gap A (2017.L1→2024.L2) is the technical training content that an apprentice who has completed 2017 Level 1 will be missing if they transition into 2024 Level 2.

Gap B (2017.L2→2024.L3) is the technical training content that an apprentice who has completed 2017 Levels 1 and 2 will be missing if they transition into 2024 Level 3.

An **Overlap** is an estimate of the hours of technical training content that an apprentice will be repeating if they transition from the 2017 program to the 2024 program (2017.L→2024.L) at a specific level.

WHAT ARE INSTRUCTIONAL HOURS AND SELF-DIRECTED LEARNING HOURS?

Instructional Hours is the missing content that requires instructional time to address. It is critical to the apprentice’s success and is unlikely to be learnt without intervention.

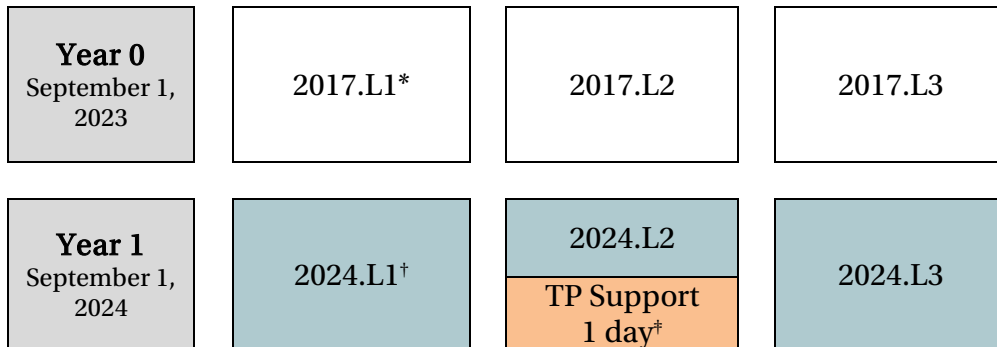
Self-Directed Learning Hours is missing content that an apprentice will likely learn in the context of other tasks or levels in technical training, on the job, or through self-study. It is not considered critical to the apprentice’s success.

WHERE CAN I SEE WHAT CONTENT AN APPRENTICE WILL BE MISSING IF THEY TRANSITION AT A PARTICULAR LEVEL?

See *Appendix A: Details of Gaps* for a list of the competencies, content and achievement criteria that current apprentices will be missing when they transition to the 2024 program.

Transition Plan Summary

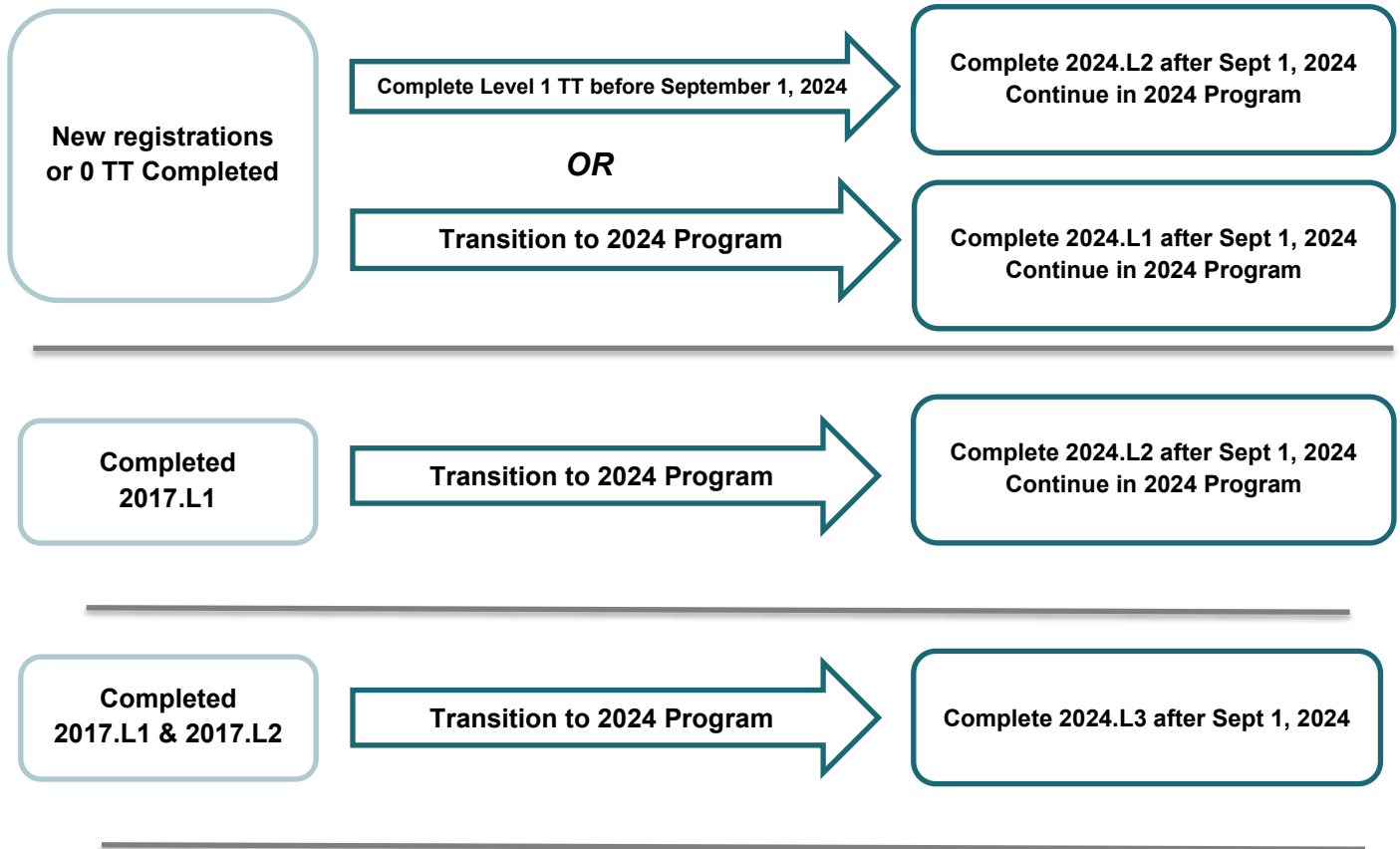
Implementation Timelines	
2024 Program Level 1 (2024.L1)	September 1, 2024
2024 Program Level 2 (2024.L2)	September 1, 2024
2024 Program Level 3 (2024.L3)	September 1, 2024



NOTES:

- *2017.L1 = *Mobile Crane Operator and Tower Crane Operator Common Core Level 1*
- †2024.L1 = *Mobile Crane Operator Level 1*. The common core model with Tower Crane Operator is removed in the 2024 program.
- ‡**Training provider (TP) support** for 2024.L2 is **not** a requirement for apprentices to get credit for the course. It is offered to training providers to provide support for 2017.L1 apprentices taking 2024.L2. The gaps faced by these apprentices are relatively small and can be addressed in a variety of ways.
- **See Appendix B: Transition Delivery Guidelines** for more information about TP support.

Pathways for Current Apprentices (Summary)



*Notes for transitioning apprentices

2017.L1s transitioning to 2024.L2: You may be missing some content areas, see Appendix A: Gap Details for a list of missing content (Gap A). Speak to your instructor and employer about how you can address your gaps.

2017.L2s Transitioning to 2024.L3: You may be missing some content areas. See Appendix A: Gap Details for a list of missing content (Gap B). Speak to your instructor and employer about how you can address your gaps.

Communications to Current Apprentices

Registered Employer-Sponsors and Apprentices will receive a letter through the SkilledTradesBC Direct Access (DA) system describing the upcoming changes to the program.

Changes to Training Hours (none)

There are no changes to technical training, WBT, or trade qualifier hours.

Exams for the 2024 Mobile Crane Operator Program

2024.L Exams – Revised SLEs aligned to the 2024 Program Outline implement with the program launch. These SLEs require a passing mark of 70% and are recorded separately from technical training (unblended).

Exam	Exam Development	Exam Launch
2024.L1	Fall 2023-Spring 2024	September 1, 2024
2024.L3	Fall 2023-Spring 2024	September 1, 2024

OPSN 2024-012 announced the launch of the 2024.L exams.

Appendix A: Details of Gaps

GAP A: Student moves 2017.L1 → 2024.L2

2017.L = 2017 MCO Program

2024.L = 2024 MCO Program

Content moved from 2017.L2 → 2024.L1, and 2017.L3 → 2024.L1

This table lists the content that an apprentice will be **missing** if they have completed 2017.L1 and then take 2024.L2.

Competency	Missing Content	Content Migration	Instructional Hours*	Self-directed Hours**
D3 Use a crane capacity chart for a lattice boom crane	2017.L2 K2 Use a crane capacity chart for a lattice boom hydraulic crane	2017.L2 → 2024.L1	4 hrs	4 hrs
G5 Perform lattice boom crane operations and hoisting techniques	2017.L2 L and N Describe lattice boom hydraulic/friction crane operations and techniques	2017.L2 → 2024.L1	8 hrs	
F1 Perform ordinary lift planning	2017.L2 K1 Conduct a site assessment for a lattice boom hydraulic crane	2017.L2 → 2024.L1	1 hr	
G1 Interpret operator manuals	2017.L2 L1 Interpret operating manuals for a lattice boom hydraulic crane	2017.L2 → 2024.L1	1 hr	1 hr
G5 Perform lattice boom crane operations and hoisting techniques	2017.L2 L4 Perform hoisting techniques for a lattice boom hydraulic crane	2017.L2 → 2024.L1	8 hr	
G6 Secure crane	2017.L2 L6 Leave a lattice boom hydraulic crane unattended	2017.L2 → 2024.L1	1 hr	
G1 Interpret operator manuals	2017.L2 N1 Interpret operating manuals for a lattice boom friction crane	2017.L2 → 2024.L1	2 hrs	1 hr
F1 Perform ordinary lift planning	2017.L2 N3 Perform a pre-operational setup for a lattice boom friction crane	2017.L2 → 2024.L1	4 hrs	
G5 Perform lattice boom crane operations and hoisting techniques	2017.L2 N4 Perform hoisting techniques for a lattice boom friction crane 2017.L2 N5 Operate a lattice boom friction crane	2017.L2 → 2024.L1	4 hrs	
G5 Perform lattice boom crane operations and hoisting techniques	2017.L2 Describe hydraulic and friction boom crane operations and techniques	2017.L2 → 2024.L1	2 hrs	1 hr
TOTAL			35 hrs	7 hrs

***Instructional Hours** are hours of dedicated instruction that an apprentice would need to cover the missing content

****Self-Directed Hours** are hours of content that an apprentice would be able to cover through self-study, on the job or in the context of other tasks/levels.

OVERLAP A: Student moves 2017.L1→2024.L2

Content moved from 2017.L1 → 2024.L2, and 2017.L1 → 2024.L3

This table lists the content that an apprentice will be **repeating** if they have completed 2017.L1 and then take 2024.L2. Overlaps are identified so that instructors and apprentices are aware of the repeated content. There may be opportunities for transitioned 2017.L1 apprentices to use some of their overlap time to study their gap content.

Competency	Overlap Content	Content Migration	Hours
C4 Perform rigging	Content for Level 1 remains the same with advanced content added to Level 2 2024.L1 = Determine & use rigging on a basic load 2024.L2 = Determine & use rigging on a non-symmetrical load	2017.L1 → 2024.L1/L2	4 hrs
D1 Determine load weights	Content for Level 1 remains the same with advanced content added to Level 2 2024.L1 = Determine crane loads and weight of basic-shaped load 2024.L2 = Calculate load weights for complex-shaped object	2017.L1 → 2024.L1/L2	1 hr
H2 Assemble and disassemble a crane	2017.L1 Assemble and disassemble a crane	2017.L1 → 2024.L3	8 hrs
H3 Assemble and disassemble specialty equipment and attachments	2017.L1 Assemble and disassemble a crane	2017.L1 → 2024.L3	4 hrs
C4 Perform rigging	Content for Level 1 remains the same with advanced content added to Level 2 2024.L1 = Determine & use rigging on a basic load 2024.L2 = Determine & use rigging on a non-symmetrical load	2017.L1 → 2024.L1/L2	2 hrs
D1 Determine load weights	Content for Level 1 remains the same with advanced content added to Level 2 2024.L1 = Determine crane loads and weight of basic-shaped load 2024.L2 = Calculate load weights for complex-shaped object	2017.L1 → 2024.L1/L2	4 hrs
H2 Assemble and disassemble a crane	2024.L3 = Assemble and disassemble a lattice boom crane	2017.L1 → 2024.L3	8 hrs
TOTAL			31 hrs

GAP B: Student moves 2017.L2→2024.L3

Content moved from 2017.L3 → 2024.L2

This table lists the content that an apprentice will be **missing** if they have completed 2017.L2 and then take 2024.L3.

Competency	Missing Content	Content Migration	Instructional Hours*	Self-directed Hours**
I2 Perform heavy lifts	2017.L3 O3 Perform heavy lifts	2017.L3 → 2024.L2	2 hrs	1 hr
I3 Operate a crane with piledriving equipment and duty cycle operations	2017.L3 O4 Perform dragline and clamshell operations and 2017.L3 O5 Perform foundation and shoring operations	2017.L3 → 2024.L2	8 hrs	1 hr
TOTAL			10 hrs	2 hrs

***Instructional Hours** are hours of dedicated instruction that an apprentice would need to cover the missing content

****Self-Directed Hours** are hours of content that an apprentice would be able to cover through self-study, on the job or in the context of other tasks/levels.

OVERLAP B: Student moves 2017.L2→2024.L3

Content moved from 2017.L2 → 2024.L3

This table lists the content that an apprentice will be **repeating** if they have completed **2017.L2** and then take **2024.L3**. Overlaps are identified so that instructors and apprentices are aware of the repeated content. There may be opportunities for transitioned 2017.L2 apprentices to use some of their overlap time to study their gap content.

Competency	Overlap Content	Content Migration	Hours
H2 Assemble and disassemble a crane	2017.L1 Assemble and disassemble a crane	2017.L1 → 2024.L3	8 hrs
H3 Assemble and disassemble specialty equipment and attachments	2017.L1 Assemble and disassemble a crane	2017.L1 → 2024.L3	8 hrs
TOTAL			16 hrs

Appendix B: Transition Delivery Guidelines

DEFINITION OF GAPS

A gap is technical training content that an apprentice would be missing if they transition from the currently active program into the newly implemented program. **Not every gap will be addressed by gap training.** Transition Plans may include one or more options for addressing gaps:

- **Training Provider Support (minimal gaps):** Some gaps are minor and will be covered in subsequent levels of technical training and/or on the job. Training providers are encouraged to identify apprentices who may need some extra instruction or support to address their gaps.

TRAINING PROVIDER SUPPORT

Delivery

- Training providers may request training provider support for the levels and years indicated in the scenario.
- Delivery method and schedule is up to the training provider.

****Training provider support is optional. It is not a completion requirement for the apprentice. Training provider support is not recorded in SkilledTradesBC Portal.****

Appendix C: Communication Plan for Transition

Audience	Purpose	Mode
Training Providers	To announce the changes to training standards and the publication of a new Program Outline and Program Profile on the trade webpage on SkilledTradesBC website	Official Program Standards Notification (OPSN) via email and posting on trade webpage
Training Providers	To plan for transitioning to the new program	Webinar(s), phone calls and/or face to face meetings
Training Providers	To announce the final transition plan	Program Update and Transition Plan via email and posting on trade webpage
Training Providers	To announce the launch of the new level exams	OPSN via email and posting on trade webpage
Employers	To inform on the upcoming changes to the program and the pathways to completion for their apprentices	Letters sent through SkilledTradesBC Portal
Apprentices	To inform on the upcoming changes to the program and their pathways to completion	Letters sent through SkilledTradesBC Portal