

Carpenter Harmonization

Transition Plan

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Abbreviations

CL	Current level (Jan 2016)
FDN	Foundation program
HL	Harmonized level (Mar 2017)
NOA	Red Seal National Occupational Analysis
RSOS	Red Seal Occupational Standard; replaces NOA
SLE	Standardized Level Exam
TP	Training provider
TT	Technical training
TW	Trade worker
WBT	Work-based training

Introduction: Harmonization

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 in 30 Red Seal trades by 2020. 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 National Occupational Analysis.

What's changing for CARPENTER	Changing in BC?	What will it be?
TRADE NAME	NO	Carpenter
NUMBER OF TRAINING LEVELS	NO	4
TOTAL HOURS technical + work-based training	YES	7200 hours Decreased by 120 work-based hours
TRAINING SEQUENCE order of subjects taught	YES	Some changes to sequence

Transition Planning Process

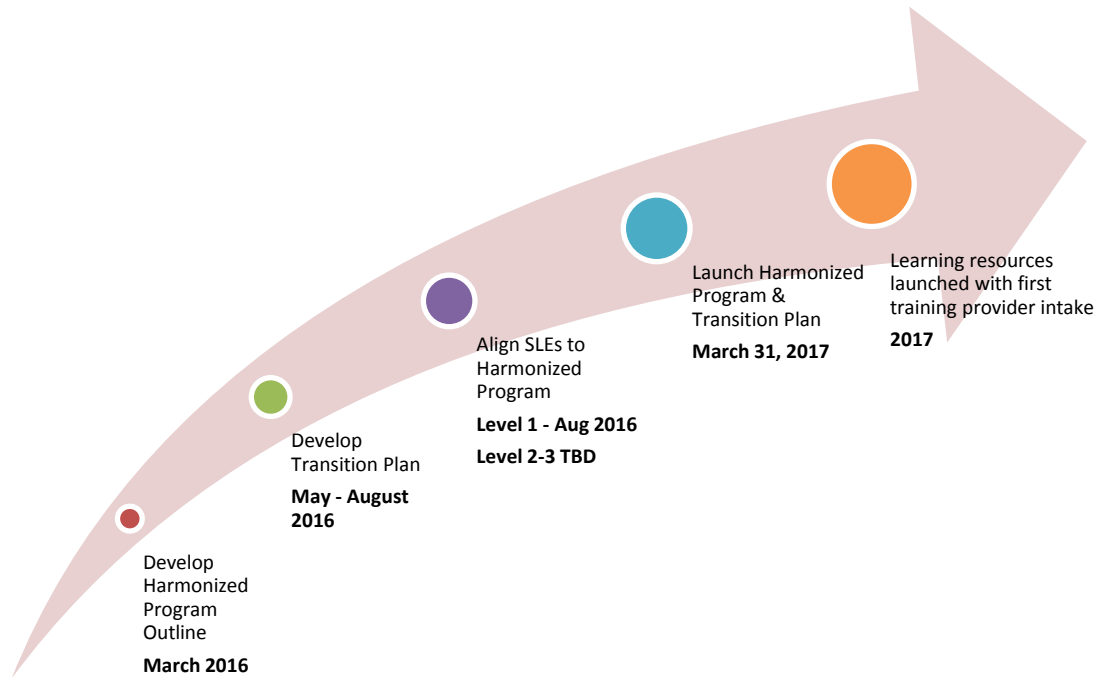
The re-sequencing of the Carpenter program through the Harmonization Initiative has resulted in changes to the sequencing of technical training.

We have consulted with the Deans of the 13 public post-secondary institutions that deliver the Carpentry program, and have also considered the input of the articulation committee and our internal partners. We evaluated a number of scenarios, and the transition plan outlined in this document has been identified as the best option. We have also ensured that there are options for all current apprentices to complete their apprenticeship.

In all of our work on harmonization, we are guided by the following principles:

- Meet the needs of industry
- Minimize disadvantage to TWs, including those currently in the program
- Minimize challenges for training providers in implementing the program

Transition Plan 2016-2017



Training Providers (13)

BCIT
Camosun College
College of New Caledonia
College of the Rockies
Kwantlen Polytechnic University
North Island College
Northern Lights College

Northwest Community College
Okanagan College
Selkirk College
Thompson Rivers University
University of the Fraser Valley
Vancouver Island University

Note: Not all institutions teach every level; 2080 seats across all regions

Transition Plan:

Implementation Timelines	
Level 1	March 31, 2017
Level 2	April 1, 2018
Level 3	April 1, 2019
Level 4	April 1, 2020

Year 0 16/17	CL1	CL2	CL3	CL4
Year 1 17/18	HL1	CL2	CL3	CL4
Year 2 18/19	HL1	HL2 Gap training A	CL3	CL4
Year 3 19/20	HL1	HL2 Gap training A	CL3 HL3	CL4
Year 4 20/21	HL1	HL2	CL3 HL3	HL4 Gap training B
Year 5 21/22	HL1	HL2	HL3	HL4 Gap training B

CL = Current Level (i.e. CL1 = Level 1 of current program)
 HL = Harmonized Level (i.e. HL1 = Level 1 of harmonized program)

Gap Training A = 30 hrs
 Gap Training B = 17 hrs

Work-Based Training Hours (WBT)

In order to align with the harmonized standard of 7,200 hours of total training, BC's WBT hours will be **reduced** as follows.

Apprenticeship Pathway (WBT reduced by 120 hours)

Current Program (Jan 2016)	Hours
Technical Training (210 hours X 4 levels = 840 hours)	840
WBT Hours	6,480
Current Total Training Hours	7,320

Harmonized Program (Mar 2017)	Hours
Technical Training (210 hours X 4 levels = 840 hours)	840
WBT Hours	6,360
Harmonized Total Training Hours	7,200

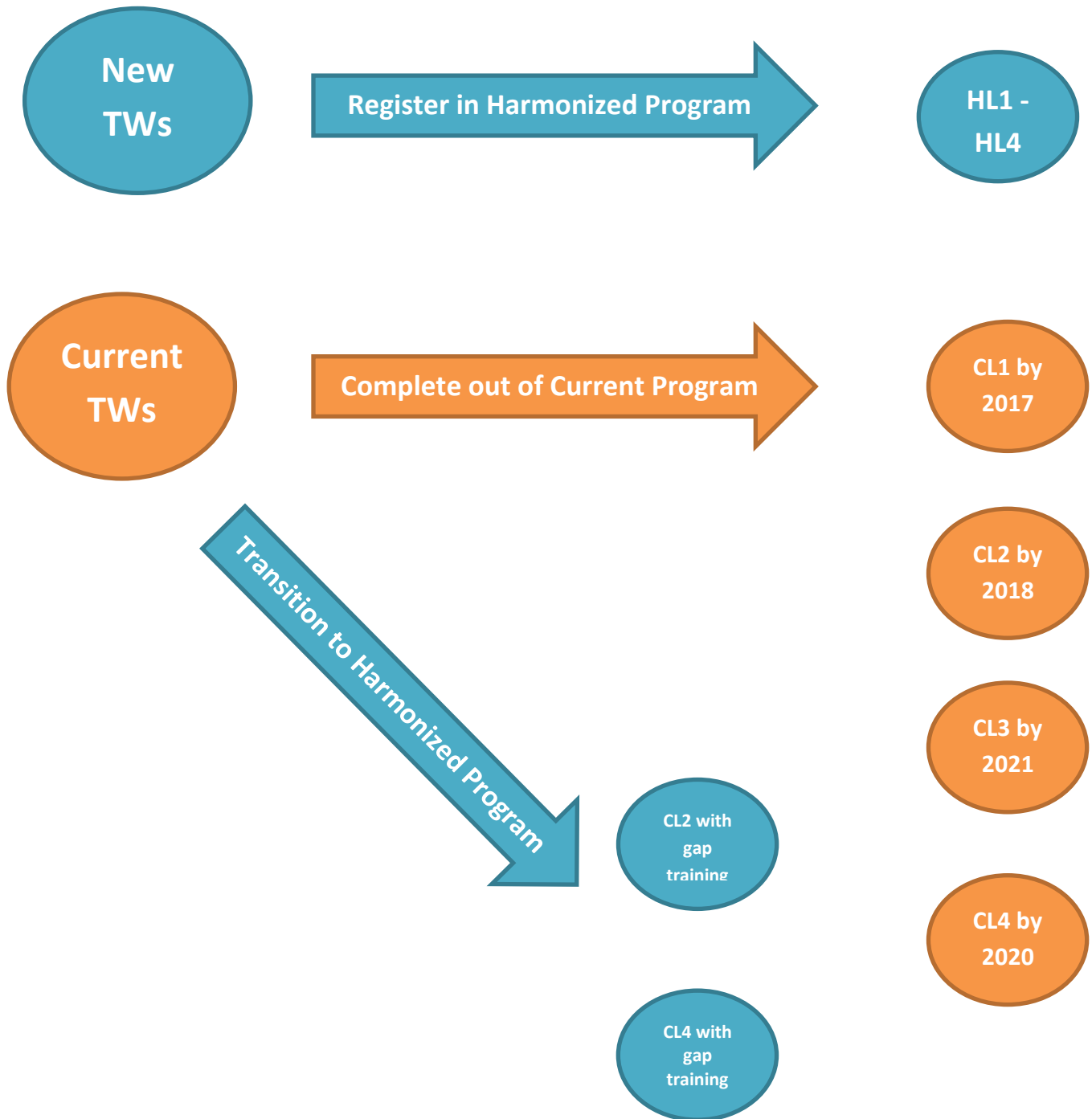
Challenge Pathway and Sign-off Authority (WBT reduced by 180 hours)

Current Program	Hours
WBT Hours	6,480
ITA Formula for Calculating Challenge WBT	X 1.5
Current Challenge WBT Hours	9,720

Harmonized Program	Hours
Harmonized WBT Hours	6,360
ITA Formula for Calculating Challenge WBT	X 1.5
Harmonized Challenge WBT Hours	9,540

NOTE: This reduction in WBT will apply to all TWs who register in or transition to the harmonized program. TWs who are registered in the 2011 or the pre-2017 (current) program will need to complete the WBT associated with those programs.

Pathways for Current Apprentices



Standardized Level Exams (SLEs)

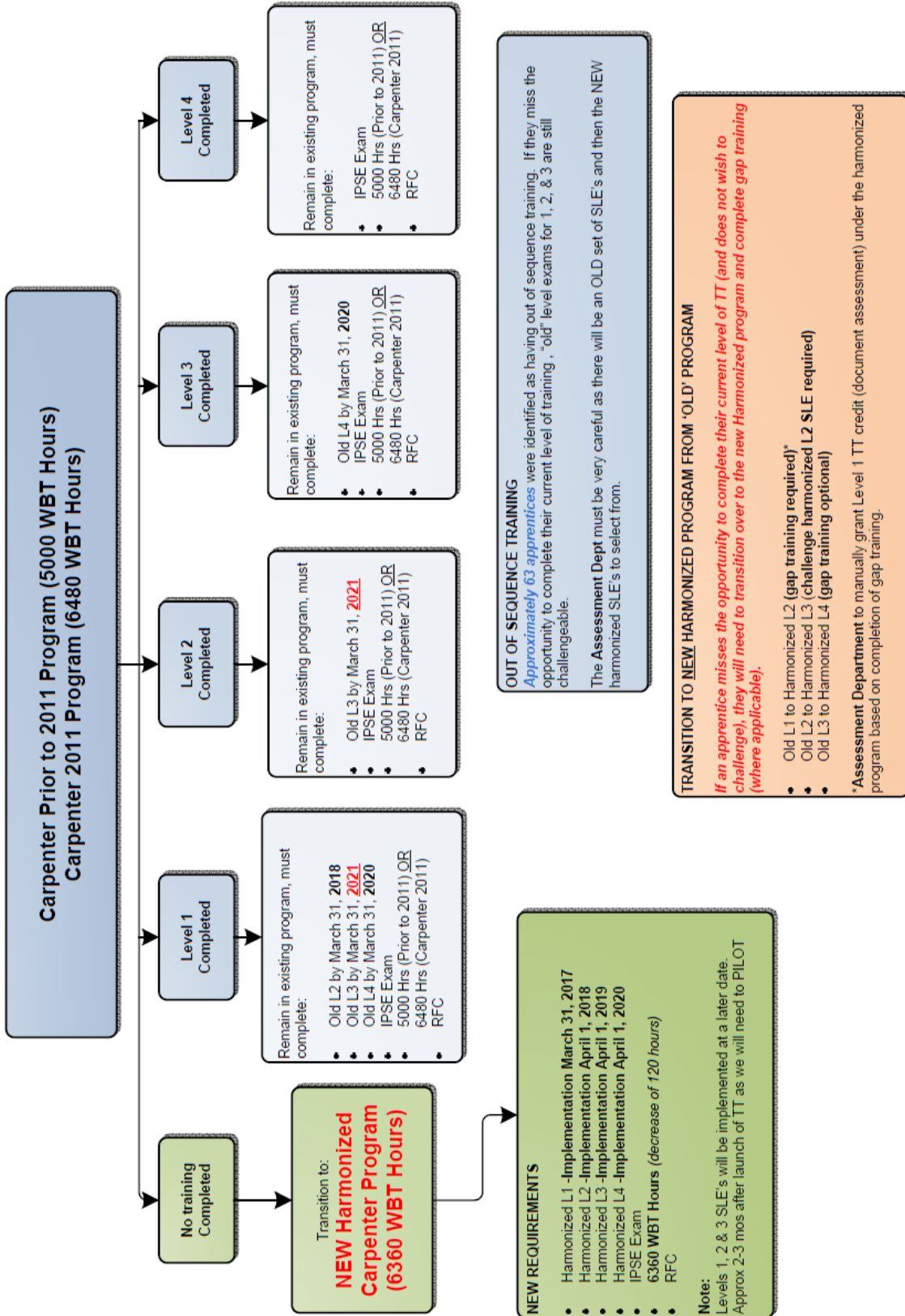
Because of the extent of the changes made to the sequencing of technical training, we will need to develop new Standardized Level Exam (SLEs) for HL1, HL2 and HL3.

SLE	Exam Development	Exam Launch (tentative)
HL1	Late 2016	Fall 2017
HL2	Late 2017	Fall 2018
HL3	Late 2018	Fall 2019

However, in order to pilot the SLEs with an appropriate cohort, the new SLEs will not be available with the first cohort through each of Harmonized Levels.

For the first cohort for HL1, HL2 and HL3, an appropriate SLE will not be available. The TW's final marks will be based on in-class assessment only.

Carpenter Transition Map EFFECTIVE March 31, 2017



Appendix A: Gap Training Details

Gap A CL1→HL2

	Competencies	Missed Topics	Delivery Option
A1	Apply Shop and Site Safety Practices	Safety committees Site inspections Tool box meetings Interpret OHS regulations	No gap training or self-study needed; this is taught in context with all tasks and on the job.
C2	Use Portable Power Tools	Jigsaws Reciprocating saws	On the job & self-study
D1	Use Levelling Instruments and Equipment	Survey circuit Turning points Transfer elevations	6 hours gap training
E1	Use Ladders, Scaffolds and Access Equipment	Scaffolds and temporary access structures	4 hours self-study 8 hours gap training
E2	Use Rigging and Hoisting Equipment	Ropes; rigging equipment; cranes and hoists Use hand signals Tie knots, bends and hitches	4 hours self-study 8 hours gap training
G2	Select Concrete Forming Systems	Formwork and falsework; material and hardware; concrete joints	No gap training required as it is covered in more detail in HL3
G3	Build Footing and Vertical Formwork	Footing forms; wall forms; column forms	2 hours self-study 2 hours gap training
G4	Build Slab-On-Grade Forms and Suspended Slab Forms	Slab-on-Grade	2 hours self-study 2 hours gap training
G5	Install Reinforcement and Embedded Items	Reinforcing for concrete	2 hours self-study 2 hours gap training
G7	Place and Finish Concrete	Delivery and placement of content	2 hours self-study 2 hours gap training
	Total Gap		16 hours of self-study 30 hours of gap training
	Competencies	Repeated Topics	Hours of Overlap
H2	Select Framing Materials	Wood production; defects; manufactured products	2 hours
H4	Build Wall Systems	Wall systems Build walls and partitions	12 hours
H6	Build Roof Systems	Gable roof systems; truss roofs Build a hip roof	18 hours
	Total Overlap		32 hours

Gap B CL3 → HL4

	Competencies	Missed Topics	Delivery Option
B2	Use Construction Drawings and Specifications	Reflected ceiling plans	No gap training or self-study needed; this is taught in context with all tasks and on the job.
G8	Install Specialized Formwork	Architectural formwork Lay out for the installation of pre-cast, concrete components	6 hours of gap training
H10	Build Decks and Exterior Structures	Decks	Adequately covered in floor systems (I7)
I1	Describe Roofing Materials	Entire competency	3 hours of gap training
I7	Install Interior Floor, Ceiling and Wall Systems	Stud walls and partitions; suspended ceilings	8 hours gap training
	Total Gap		0 hours of self-study 17 hours of gap training
	Competencies	Repeated Topics	Strategy
D2	Use Site Layout Equipment	Total stations (only repeating the theory)	Negligible
F2	Prepare Building Site	Entire competency	3 hours
	Total Overlap		3 hours