

Issued: June 16, 2016

Program: Carpenter

To: ITA Training Providers
Articulation Chair
System Liaison Person
School Districts

Subject: **Carpenter Program Update**

OPSN No.: **OPSN 2016-009**

Effective Date: March 31, 2017

Summary of Change: Please be advised that a new Program Outline has been posted to the Industry Training Authority (ITA) website.

Rationale: At the request of industry, the Canadian Council of Directors of Apprenticeship (CCDA)'s Harmonization Initiative was launched in Fall 2013, and endorsed by the Forum of Labour Market Ministers (FLMM) in 2014. The goal of Harmonization is to *substantively align* apprenticeship systems across Canada by making apprenticeship training requirements more consistent in Red Seal trades.

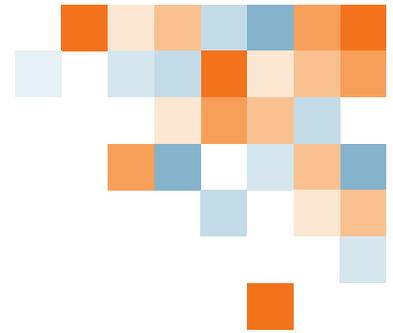
In consultation with stakeholders, the CCDA identified four harmonization priorities:

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.

Phase One sought to harmonize ten trades, which included Carpenter. After a series of consultations and pan-Canadian webinars, the finalized priorities for Carpenter were as follows:

1. Trade name – Carpenter (no change)
2. Total training hours – 7200 (no change in technical training hours; change in work-based training hours – see ***Work-based Training Hours Details*** attached)
3. Number of levels – 4 (no change)
4. Sequencing of content – (changed – see ***Outline Review Details*** attached or the Program Outline at <http://www.itabc.ca/program/carpenter>.)

The changes to the sequencing of technical training prompted a review of the BC



Carpenter Program to align it to the harmonized sequencing.

Details: A Carpenter Program Review was conducted in March 2016 to align the ITA Carpenter Program to the Harmonized Sequencing. The review process resulted in significant changes to the sequence of technical training.

ITA is working with the BCATTA Harmonization Implementation group to identify transition strategies for training providers. ITA is also working on a communication plan to inform apprentices and employers of the changes to the program.

Attachments: ***Carpenter Program Outline Review Details***
This attachment provides details of the revisions made to the Carpenter Program Outline during the review process.

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Carpenter Harmonization: Work-Based Training Hours Details

In order to align with the harmonized standard of 7,200 hours of total training, BC's work-based training (WBT) hours for Carpenter will be reduced by 120 hours in the apprenticeship pathway and by 180 hours in the challenge pathway. (See details below)

Apprenticeship Pathway

Current BC Program	Hours
BC Technical Training (210 hours X 4 levels = 840 hours)	840
BC Work-based Training Hours	6,480
BC Current Total Training Hours	7,320

Proposed (Harmonized) Program	Hours
BC Technical Training (210 hours X 4 levels = 840 hours)	840
BC Work-based Training Hours	6,360
Proposed (Harmonized) Total Training Hours	7,200

Challenge Pathway and Sign-off Authority

Current BC Program	Hours
BC Work-based Training Hours	6,480
ITA Formula for Calculating Challenge WBT	X 1.5
BC Current Challenge WBT Hours	9,720

Proposed (Harmonized) Program	Hours
Proposed (Harmonized) Work-based Training Hours	6,360
ITA Formula for Calculating Challenge WBT	X 1.5
Proposed (Harmonized) Challenge WBT Hours	9,540

Note: Technical training is 7 weeks/level (based on a 30 hour week). This is not changing.



Carpenter Program Outline Review Details - Harmonization

Key

Red Text = Competency/ content moved out of level

Green Text = Competency/ content moved into level

Blue Text = Renumbering

Black Text = No change

Summary - Competency Migration

CARPENTER LEVEL 1		CARPENTER LEVEL 2		CARPENTER LEVEL 3		CARPENTER LEVEL 4	
Line A	Safe Work Practices	Line A	Safe Work Practices	Line A	Safe Work Practices	Line A	Safe Work Practices
L2 content moved to L1	A1: Apply Shop and Site Safety Practices	Moved to L1	A1: Apply Shop and Site Safety Practices				
	A2: Apply Personal Safety Practices						
Line B	Documentation & Organizational Skills	Line B	Documentation & Organizational Skills	Line B	Documentation & Organizational Skills	Line B	Documentation & Organizational Skills
Removed	B1: Describe Carpentry Trade FDN Only						
Renumbered	B1: Use Construction Drawings and Specifications	Renumbered	B1: Use Construction Drawings and Specifications	Renumbered/ moved from L4	B1: Use Construction Drawings and Specifications	Renumbered/ moved to L3	B1: Use Construction Drawings and Specifications
Renumbered	B2: Interpret Building Codes and Bylaws	Renumbered	B2: Interpret Building Codes and Bylaws	Renumbered	B2: Interpret Building Codes and Bylaws	Renumbered	B2: Interpret Building Codes and Bylaws
Renumbered	B3: Plan and Organize Work					Renumbered	B3: Plan and Organize Work
Renumbered	B4: Perform Trade Math						
Line C	Tools and Equipment	Line C	Tools and Equipment	Line C	Tools and Equipment	Line C	Tools and Equipment
	C1: Use Hand Tools				C1: Use Hand Tools		
Moved from L3	C2: Use Portable Power Tools	Moved from L3	C2: Use Portable Power Tools	Moved to L2 & L1	C2: Use Portable Power Tools		
	C3: Use Stationary Power Tools	Moved from L3	C3: Use Stationary Power Tools	Some content to L2	C3: Use Stationary Power Tools		
			C4: Use Oxy-fuel Equipment				



Carpenter Program Outline Review Details - Harmonization

Line D	Survey Instruments and Equipment	Line D	Survey Instruments and Equipment	Line D	Survey Instruments and Equipment	Line D	Survey Instruments and Equipment
Moved from L2	D1: Use Levelling Instruments and Equipment	Moved to L1	D1: Use Levelling Instruments and Equipment				
		Moved from L3	D2: Use Site Layout Equipment	Moved to L2 & 4	D2: Use Site Layout Equipment	Moved from L3	D2: Use Site Layout Equipment
Line E	Access, Rigging and Hoisting Equipment	Line E	Access, Rigging and Hoisting Equipment	Line E	Access, Rigging and Hoisting Equipment	Line E	Access, Rigging and Hoisting Equipment
Moved from L2	E1: Use Ladders, Scaffolds and Access Equipment	Moved to L1	E1: Use Ladders, Scaffolds and Access Equipment				
Moved from L2	E2: Use Rigging and Hoisting Equipment	Moved to L1	E2: Use Rigging and Hoisting Equipment				
Line F	Site Layout	Line F	Site Layout	Line F	Site Layout	Line F	Site Layout
	F1: Layout Building Locations		F1: Layout Building Locations				
		Moved to L4	F2: Prepare Building Site			Moved from L2	F2: Prepare Building Site
		Moved to L3	F3: Apply Excavation and Shoring Practices	Moved from L2	F3: Apply Excavation and Shoring Practices		
Line G	Concrete Formwork	Line G	Concrete Formwork	Line G	Concrete Formwork	Line G	Concrete Formwork
	G1: Use Concrete Types, Materials, Additives and Treatments	Moved to L3	G1: Use Concrete Types, Materials, Additives and Treatments	Moved from L2	G1: Use Concrete Types, Materials, Additives and Treatments		
Moved from L2	G2: Select Concrete Forming Systems	Moved to Levels 1 & 3	G2: Select Concrete Forming Systems	Moved from L2	G2: Select Concrete Forming Systems		
Moved from L3	G3: Build Footing and Vertical Formwork	Moved to L3 & 1	G3: Build Footing and Vertical Formwork	Moved from L2	G3: Build Footing and Vertical Formwork		
Moved from L2	G4: Build Slab-On-Grade Forms and Suspended Slab Forms	some content to L1 & L3	G4: Build Slab-On-Grade Forms and Suspended Slab Forms	Moved from L2	G4: Build Slab-On-Grade Forms and Suspended Slab Forms		
Moved from L2	G5: Install Reinforcement and Embedded Items	Moved to Levels 1 & 3	G5: Install Reinforcement and Embedded Items	Moved from L2	G5: Install Reinforcement and Embedded Items		
		Moved to L3	G6: Build Concrete Stair Forms	Moved from L2	G6: Build Concrete Stair Forms		

Carpenter Program Outline Review Details - Harmonization

Moved from L2	G7: Place and Finish Concrete	Some content moved to L1	G7: Place and Finish Concrete				
		Moved to L3	G8: Install Specialized Formwork	Moved from L2 & 4	G8: Install Specialized Formwork	Moved to L3	G8: Install Specialized Formwork
Line H	Wood Frame Construction	Line H	Wood Frame Construction	Line H	Wood Frame Construction	Line H	Wood Frame Construction
	H1: Describe Wood Frame Construction						
Some content to L2	H2: Select Framing Materials	Some content from L1	H2: Select Framing Materials				
	H3: Build Floor Systems						
Moved to L2	H4: Build Wall Systems	Moved from L1	H4: Build Wall Systems				
	H5: Build Stair Systems	Moved from L3	H5: Build Stair Systems	Moved to L2	H5: Build Stair Systems		H5: Build Stair Systems
Moved to L2	H6: Build Roof Systems	Moved from L1	H6: Build Roof Systems		H6: Build Roof Systems		H6: Build Roof Systems
							H7: Build Specialized Framing Systems
							H8: Perform Renovations and Additions
							H9: Build Timber and Engineered Wood Construction
Some content moved from L4	H10: Build Decks and Exterior Structures					Some content moved to L1	H10: Build Decks and Exterior Structures
Line I	Finishing Materials	Line I	Finishing Materials	Line I	Finishing Materials	Line I	Finishing Materials
		Moved from L4	I1: Describe Roofing Materials			Moved to L2	I1: Describe Roofing Materials
		Some content moved from	I2: Install Doors and Hardware	Some content moved to L2	I2: Install Doors and Hardware		

Carpenter Program Outline Review Details - Harmonization

		L3					
		Moved from L3	I3 Install Windows and Hardware	Moved to L2	I3 Install Windows and Hardware		
		Moved from L3	I4: Install Exterior Finishes	Moved to L2	I4: Install Exterior Finishes		
					I5: Install Interior Finishes		I5: Install Interior Finishes
					I6: Install Cabinets		
				Some content moved from L4	I7: Install Interior Floor, Ceiling and Wall Systems	Some content moved to L3	I7: Install Interior Floor, Ceiling and Wall Systems
Line J	Building Science	Line J	Building Science	Line J	Building Science	Line J	Building Science
	J1: Control the Forces Acting on a Building		J1: Control the Forces Acting on a Building				J1: Control the Forces Acting on a Building
		Moved from L3	J2: Control Heat and Sound Transmission	Moved to L2	J2: Control Heat and Sound Transmission		
		Moved from L3	J3: Control Air and Moisture Movement in Buildings	Moved to L2	J3: Control Air and Moisture Movement in Buildings		

Carpenter Program Outline Review Details - Harmonization

Details of Changes

	Current Level 1		Harmonized Level 1	Description of Changes
Line A	Safe Work Practices	Line A	Safe Work Practices	
A1	Apply Shop and Site Safety Practices	A1	Apply Shop and Site Safety Practices	Content from Current L2 moved into Harmonized L1
A2	Apply Personal Safety Practices	A2	Apply Personal Safety Practices	
Line B	Documentation and Organizational Skills	Line B	Documentation and Organizational Skills	
B1	Describe Carpentry Trade FDN only			Competency removed; Training Providers can exceed the L1 program outline in their FDN programs
B2	Use Construction Drawings and Specifications	B1	Use Construction Drawings and Specifications	Competency re-numbered
B3	Interpret Building Codes and Bylaws	B2	Interpret Building Codes and Bylaws	Competency re-numbered
B4	Plan and Organize Work	B3	Plan and Organize Work	Competency re-numbered
B5	Perform Trade Math	B4	Perform Trade Math	Competency re-numbered
Line C	Tools and Equipment	Line C	Tools and Equipment	
C1	Use Hand Tools	C1	Use Hand Tools	
C2	Use Portable Power Tools	C2	Use Portable Power Tools	Competency from Current L3 split into Harmonized L1 & L2
C3	Use Stationary Power Tools	C3	Use Stationary Power Tools	
Line D	Survey Instruments and Equipment	Line D	Survey Instruments and Equipment	
D1	Use Levelling Instruments and Equipment	D1	Use Levelling Instruments and Equipment	Competency moved from Current L2 into Harmonized L1
Line E	Access, Rigging and Hoisting Equipment	Line E	Access, Rigging and Hoisting Equipment	
E1	Use Ladders, Scaffolds and Access Equipment	E1	Use Ladders, Scaffolds and Access Equipment	Content moved from Current L2 to Harmonized L1
		E2	Use Rigging and Hoisting Equipment	Competency moved from Current L2 into Harmonized L1
Line F	Site Layout	Line F	Site Layout	
F1	Lay Out Building Locations	F1	Lay Out Building Locations	
Line G	Concrete Formwork	Line G	Concrete Formwork	

Carpenter Program Outline Review Details - Harmonization

	Current Level 1		Harmonized Level 1	Description of Changes
G1	Use Concrete Types, Materials, Additives and Treatments	G1	Use Concrete Types, Materials, Additives and Treatments	
		G2	Select Concrete Forming Systems	Competency from Current L2 split into Harmonized L1 & L3
G3	Build Footing and Vertical Formwork	G3	Build Footing and Vertical Formwork	Competency from Current L2 split into Harmonized L1 & L3
		G4	Build Slab-On-Grade Forms and Suspended Slab Forms	Content moved from Current L2 into Harmonized L1 & L3
		G5	Install Reinforcement and Embedded Items	Competency from Current L2 split into Harmonized L1 & L3
		G7	Place and Finish Concrete	Some content from Current L2 moved into Harmonized L1
Line H	Wood Frame Construction	Line H	Wood Frame Construction	
H1	Describe Wood Frame Construction	H1	Describe Wood Frame Construction	
H2	Select Framing Materials	H2	Select Framing Materials	Some content moved Current L1 into Harmonized L2
H3	Build Floor Systems	H3	Build Floor Systems	
H4	Build Wall Systems			Competency moved from Current L1 into Harmonized L2
H5	Build Stair Systems	H5	Build Stair Systems	
H6	Build Roof Systems			Competency moved from Current L1 into Harmonized L2
		H10	Build Decks and Exterior Structures	Some content moved from Current L4 into Harmonized L1
Line J	Building Science	Line J	Building Science	
J1	Control the Forces Acting on a Building	J1	Control the Forces Acting on a Building	

Carpenter Program Outline Review Details - Harmonization

	Current Level 2		Harmonized Level 2	Description of Changes
Line A	Safe Work Practices	Line A	Safe Work Practices	
A1	Apply Shop and Site Safety Practices			Content moved from Current L2 into Harmonized L1
Line B	Documentation and Organizational Skills	Line B	Documentation and Organizational Skills	
B1	Use Construction Drawings and Specifications	B1	Use Construction Drawings and Specifications	Competency re-numbered
B2	Interpret Building Codes and Bylaws	B2	Interpret Building Codes and Bylaws	Competency re-numbered
Line C	Tools and Equipment	Line C	Tools and Equipment	
C2	Use Portable Power Tools	C2	Use Portable Power Tools	Content from Current L3 split into Harmonized L2 & L1
		C3	Use Stationary Power Tools	Some content moved from Current L3 into Harmonized L2
C4	Use Oxy-Fuel Equipment	C4	Use Oxy-Fuel Equipment	
Line D	Survey Instruments and Equipment	Line D	Survey Instruments and Equipment	
D1	Use Levelling Instruments and Equipment			Competency moved from Current L2 into Harmonized L1
D2	Use Site Layout Equipment	D2	Use Site Layout Equipment	Competency from Current L3 split into Harmonized L2 & L4
Line E	Access, Rigging and Hoisting Equipment			
E1	Use Ladders, Scaffolds and Access Equipment			Competency moved from Current L2 into Harmonized L1
E2	Use Rigging and Hoisting Equipment			Competency moved from Current L2 into Harmonized L1
Line F	Site Layout	Line F	Site Layout	
F1	Lay Out Building Locations	F1	Lay Out Building Locations	
F2	Prepare Building Site			Competency moved from Current L2 into Harmonized L4
F3	Apply Excavation and Shoring Practices			Competency moved from Current L2 into Harmonized L3
Line G	Concrete Formwork	Line G	Concrete Formwork	
G1	Use Concrete Types, Materials, Additives and Treatments			Competency moved from Current L2 into Harmonized L3
G2	Select Concrete Forming Systems			Competency from Current L2 split into Harmonized L1 & L3

	Current Level 2		Harmonized Level 2	Description of Changes
G3	Build Footing and Vertical Formwork			Competency from Current L2 split into Harmonized L1 & L3
G4	Build Slab-On-Grade Forms and Suspended Slab Forms	G4	Build Slab-On-Grade Forms and Suspended Slab Forms	Some content moved from Current L2 into Harmonized L1&L3
G5	Install Reinforcement and Embedded Items			Competency from Current L2 split into Harmonized L1 & L3
G6	Build Concrete Stair Forms			Competency moved from Current L2 into Harmonized L3
G7	Place and Finish Concrete	G7	Place and Finish Concrete	Some content moved from Current L2 into Harmonized L1
G8	Install Specialized Formwork			Competency moved from Current L2 & L4 into Harmonized L3
Line H	Wood Frame Construction	Line H	Wood Frame Construction	
		H2	Select Framing Materials	Content moved from Current L1 into Harmonized L2
		H4	Build Wall Systems	Competency moved from Current L1 into Harmonized L2
		H5	Build Stair Systems	Competency moved from Current L3 into Harmonized L2
		H6	Build Roof Systems	Competency moved from Current L1 into Harmonized L2
Line I	Finishing Materials	Line I	Finishing Materials	
		I1	Describe Roofing Materials	Competency moved from Current L4 into Harmonized L2
		I2	Install Doors and Hardware	Some content moved from Current L3 into Harmonized L2
		I3	Install Windows and Hardware	Competency moved from Current L3 to Harmonized L2
		I4	Install Exterior Finishes	Competency moved from Current L3 to Harmonized L2
Line J	Building Science	Line J	Building Science	
J1	Control the Forces Acting on a Building	J1	Control the Forces Acting on a Building	
		J2	Control Heat and Sound Transmission	Competency moved from Current L3 into Harmonized L2
		J3	Control Air and Moisture Movement in Buildings	Competency moved from Current L3 into Harmonized L2

	Current Level 3		Harmonized Level 3	Description of Changes
Line B	Documentation and Organizational Skills	Line B	Documentation and Organizational Skills	
B1	Use Construction Drawings and Specifications	B1	Use Construction Drawings and Specifications	Competency renumbered Content moved from Current L4 into Harmonized L3
B2	Interpret Building Codes and Bylaws	B2	Interpret Building Codes and Bylaws	Competency renumbered
Line C	Tools and Equipment	Line C	Tools and Equipment	
C1	Use Hand Tools	C1	Use Hand Tools	
C2	Use Portable Power Tools			Content moved from Current L3 into Harmonized L1 & L2
C3	Use Stationary Power Tools	C3	Use Stationary Power Tools	Some content moved from Current L3 into Harmonized L2
Line D	Survey Instruments and Equipment			
D2	Use Site Layout Equipment			Content moved from Current L3 into Harmonized L2 & L4
Line F	Site Layout	Line F	Site Layout	
		F3	Apply Excavation and Shoring Practices	Competency moved from Current L2 into Harmonized L3
Line G	Concrete Formwork	Line G	Concrete Formwork	
		G1	Use Concrete Types, Materials, Additives and Treatments	Content moved from Current L2 into Harmonized L3
		G2	Select Concrete Forming Systems	Competency from Current L2 split into Harmonized L1 & L3
		G3	Build Footing and Vertical Formwork	Competency from Current L2 split into Harmonized L1 & L3
		G4	Build Slab-On-Grade Forms and Suspended Slab Forms	Content moved from Current L2 into Harmonized L1 & L3
		G5	Install Reinforcement and Embedded Items	Competency from Current L2 split into Harmonized L1 & L3
		G6	Build Concrete Stair Forms	Competency moved from Current L2 into Harmonized L3
		G8	Install Specialized Formwork	Competency moved from Current L2 and L4 into Harmonized L3
Line H	Wood Frame Construction	Line H	Wood Frame Construction	
H5	Build Stair Systems			Competency moved from Current L3 into Harmonized L2

Carpenter Program Outline Review Details - Harmonization

	Current Level 3		Harmonized Level 3	Description of Changes
H6	Build Roof Systems	H6	Build Roof Systems	
Line I	Finishing Materials	Line I	Finishing Materials	
I2	Install Doors and Hardware	I2	Install Doors and Hardware	Some content moved to Harmonized L2
I3	Install Windows and Hardware			Competency moved from Current L3 into Harmonized L2
I4	Install Exterior Finishes			Competency moved from Current L3 into Harmonized L2
I5	Install Interior Finishes	I5	Install Interior Finishes	
I6	Install Cabinets	I6	Install Cabinets	
		I7	Install Interior Floor, Ceiling and Wall Systems	Some content moved from Current L4 into Harmonized L3
Line J	Building Science			
J2	Control Heat and Sound Transmission			Competency moved from Current L3 into Harmonized L2
J3	Control Air and Moisture Movement in Buildings			Competency moved from Current L3 into Harmonized L2

	Current Level 4		Harmonized Level 4	Description of Changes
Line B	Documentation and Organizational Skills	Line B	Documentation and Organizational Skills	
B1	Use Construction Drawings and Specifications			Competency renumbered Content moved from Current L4 into Harmonized L3
B2	Interpret Building Codes and Bylaws	B2	Interpret Building Codes and Bylaws	
B3	Plan and Organize Work	B3	Plan and Organize Work	
Line D	Survey Instruments and Equipment	Line D	Survey Instruments and Equipment	
D2	Use Site Layout Equipment	D2	Use Site Layout Equipment	Competency from Current L3 split into Harmonized L2 & L4
Line F	Site Layout	Line F	Site Layout	
F2	Prepare Building Site	F2	Prepare Building Site	Competency moved from Current L2 into Harmonized L4
Line G	Concrete Formwork			
G8	Install Specialized Formwork			Content moved from Current L2 and L4 to Harmonized L3
Line H	Wood Frame Construction	Line H	Wood Frame Construction	
H5	Build Stair Systems	H5	Build Stair Systems	
H6	Build Roof Systems	H6	Build Roof Systems	
H7	Build Specialized Framing Systems	H7	Build Specialized Framing Systems	
H8	Perform Renovations and Additions	H8	Perform Renovations and Additions	
H9	Build Timber and Engineered Wood Construction	H9	Build Timber and Engineered Wood Construction	
H10	Build Decks and Exterior Structures	H10	Build Decks and Exterior Structures	Some content moved from Current L4 into Harmonized L1
Line I	Finishing Materials	Line I	Finishing Materials	
I1	Describe Roofing Materials			Competency moved from Current L4 to Harmonized L2
I5	Install Interior Finishes	I5	Install Interior Finishes	
I7	Install Interior Floor, Ceiling and Wall Systems	I7	Install Interior Floor, Ceiling and Wall Systems	Some content from Current L4 moved into Harmonized L3



Carpenter Program Outline Review Details - Harmonization

	Current Level 4		Harmonized Level 4	Description of Changes
Line J	Building Science	Line J	Building Science	
J1	Control the Forces Acting on a Building	J1	Control the Forces Acting on a Building	