Issued: April 12, 2021

Program: Bricklayer (Mason)

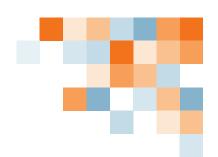|	
To:	ITA Training Providers Articulation Chair System Liaison Person School Districts
Subject:	**Bricklayer (Mason) Program Outline and Program Profile Update**
OPSN No.:	**OPSN 2021 002**
Effective Date:	September 1, 2021
Summary of Change:	Please be advised that the new Harmonized Program Outline has been posted to the Industry Training Authority (ITA) website. For details, please see ***Bricklayer (Mason) Program Outline Review Details*** (attached). Changes are as follows: • Program name changed (from Bricklayer (Mason) to Bricklayer) • Decrease in work-based training hours (from 5,000 hours to 4,860 hours) • Changes in sequencing of technical training content
Rationale:	At the request of industry, the Canadian Council of Directors of Apprenticeship's (CCDA) Harmonization Initiative was launched in Fall 2013. 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: trade name, total training hours (in-school plus on-the-job), number of levels, and the sequencing of training content. Bricklayer is one of the trades identified for the sixth phase of Harmonization. After a series of consultations, the finalized priorities of the Harmonized Bricklayer program were as follows:

Bricklayer	Changes in BC?	What will it be?
Trade name	Yes	Bricklayer (From Bricklayer (Mason))
Total work-based training hours	Yes	4,860 hours (from 5,000 hours)

Training Levels	No	3 Levels
Training sequence	Yes	Some changes

Details: The Bricklayer Program Review was conducted in December 2020 to align BC's Bricklayer Program Outline to the harmonized sequencing and 2021 RSOS. The review process revised content to meet the current industry standard.

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

For more information contact: ITA Program Standards
email: programstandards@itabc.ca

cc: All Staff

Key
Blue Text = Content moved to lower level = HL←CL (creates a gap)
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Summary - Competency Migration

This chart shows the finalized competency distribution for the Harmonized Bricklayer program. It summarizes the major changes to the competencies, specifically the level they are taught in and any competencies that were added, moved, or removed. For details, see the charts below this one.

BRICKLAYER HARMONIZED LEVEL 1		BRICKLAYER HARMONIZED LEVEL 2		BRICKLAYER HARMONIZED LEVEL 3	
Line A	Use Safe Work Practices	Line A	Use Safe Work Practices	Line A	Use Safe Work Practices
	A1 Manage workplace hazards				
	A2 Apply OHS Regulations and WorkSafeBC Standards				
	A3 Use fall protection systems and equipment				
	A4 Use personal protective equipment (PPE)				
	A5 Use fire safety procedures				
	A6 Apply GHS (formerly WHMIS)				
Line B	Use Tools and Equipment	Line B	Use Tools and Equipment	Line B	Use Tools and Equipment
	B1 Use hand tools and measuring equipment				
	B2 Use power tools				
	B3 Use ladders, scaffolds, and elevated platforms				
	B4 Use rigging and hoisting equipment				
Line C	Organize Work	Line C	Organize Work	Line C	Organize Work
	C1 Use mathematics		C1 Use mathematics		C1 Use mathematics
	C2 Use drawings, specifications and documentation		C2 Use drawings, specifications and documentation		C2 Use drawings, specifications and documentation

BRICKLAYER HARMONIZED LEVEL 1		BRICKLAYER HARMONIZED LEVEL 2		BRICKLAYER HARMONIZED LEVEL 3	
	C3 Use communication techniques				
				NEW	C4 Use mentoring techniques
	C5 Handle materials				
	C6 Lay out wall and coursing				
Line D	**Perform Routine Mason Practices**	**Line D**	**Perform Routine Mason Practices**	**Line D**	**Perform Routine Mason Practices**
	D1 Prepare the site				
HL1←CL2	D2 Install envelope materials				
CL1→ HL1/HL2/HL3	D3 Use mortars, grouts and bonding agents	CL1→HL1/HL2/HL3	D3 Use mortars, grouts and bonding agents	CL1→HL1/HL2/HL3	D3 Use mortars, grouts and bonding agents
Line E	**Apply Masonry Systems**	**Line E**	**Apply Masonry Systems**	**Line E**	**Apply Masonry Systems**
	E1 Build non-load-bearing masonry walls				
			E2 Build load-bearing walls and columns		
		CL2→HL2/HL3	E3 Build horizontal masonry	CL2→HL2/HL3	E3 Build horizontal masonry
		HL2←CL3	E4 Build and install pre-fabricated masonry		
			E5 Install surface bonded masonry units		
Line F	**Apply Stone Systems**	**Line F**	**Apply Stone Systems**	**Line F**	**Apply Stone Systems**
			F1 Install stone veneer		
				CL2→HL3	F2 Install stone cladding
Line G	**Build Chimneys, Fireplaces and Refractory Materials**	**Line G**	**Build Chimneys, Fireplaces and Refractory Materials**	**Line G**	**Build Chimneys, Fireplaces and Refractory Materials**
		CL2→HL2/HL3	G1 Lay masonry units	CL2→HL2/HL3	G1 Lay masonry units
					G2 Install refractory materials for heat-resistant applications
					G3 Install corrosion resistant materials for corrosion resistant applications

Bricklayer – Program Outline Competency Migration

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BRICKLAYER HARMONIZED LEVEL 1		BRICKLAYER HARMONIZED LEVEL 2		BRICKLAYER HARMONIZED LEVEL 3	
Line H	**Perform Restoration**	**Line H**	**Perform Restoration**	**Line H**	
			H1 Rebuild masonry work		
			H2 Restore existing masonry work		H2 Restore existing masonry work
	H3 Clean and seal masonry surfaces				
Line I	**Perform Specialized Masonry Work**	**Line I**	**Perform Specialized Masonry Work**	**Line I**	**Perform Specialized Masonry Work**
		HL2←CL3	I2 Install glass blocks		
					I2 Install ornamental and sculptured masonry
		HL2/HL3←CL3	I3 Build arches	HL2/HL3←CL3	I3 Build arches

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Details of Changes

The following shows where content from the current Bricklayer program (CL) moved to in the harmonized Bricklayer program (HL) and includes details of content that was moved or split across levels.

CURRENT LEVEL 1 (CL1) TO HARMONIZED LEVEL 1 (HL1)

	Current Level 1		Harmonized Level 1	Migration	Description of Changes
Line A	**Use Safe Work Practices**	Line A	**Use Safe Work Practices**		
A1	Manage workplace hazards	A1	Manage workplace hazards		
A2	Apply OHS Regulations and WorkSafeBC Standards	A2	Apply OHS Regulations and WorkSafeBC Standards		
A3	Use fall protection systems and equipment	A3	Use fall protection systems and equipment		
A4	Use personal protective equipment	A4	Use personal protective equipment (PPE)		
A5	Use fire safety procedures	A5	Use fire safety procedures		
A6	Apply WHMIS	A6	Apply GSH (formerly WHMIS)		
Line B	**Use Tools and Equipment**	Line B	**Use Tools and Equipment**		
B1	Use hand tools and measuring equipment	B1	Use hand tools and measuring equipment		
B2	Use power tools	B2	Use power tools		
B3	Use ladders, scaffolds, and elevated platforms	B3	Use ladders, scaffolds and elevated platforms		
B4	Use rigging and hoisting equipment	B4	Use rigging and hoisting equipment		
Line C	**Organize Work**	Line C	**Organize Work**		
C1	Use mathematics	C1	Use mathematics		
C2	Use drawings, specifications and documentation	C2	Use drawing, specifications and documentation		
C3	Communication	C3	Use communication techniques		
C4	Handle materials	C5	Handle materials		
C5	Lay out wall and coursing	C6	Lay out wall and coursing		

	Current Level 1		Harmonized Level 1	Migration	Description of Changes
Line D	**Perform Routine Mason Practices**	Line D	**Perform Routine Mason Practices**		
D1	Prepare the site	D1	Prepare the site		
D3	Install envelope materials	D2	Install envelope materials		
D4	Use mortars, grouts and bonding agents	D3	Use mortars, grouts and bonding agents	CL1→ HL1/HL2/HL3	Split across HL1/HL2/HL3 HL1=mortars, grouts, admixtures, mix and use mortars HL2=grouts, admixtures, concrete/grout for block fill, bonding agents HL3=mortars, admixtures, mix and use mortars, concrete/grout for block fill, bonding agents
Line E	**Apply Masonry Systems**	Line E	**Apply Masonry Systems**		
E1	Build non load-bearing masonry walls	E1	Build non load-bearing masonry walls		
Line H	**Perform Restoration**	Line H	**Perform Restoration**		
H3	Clean and seal masonry surfaces	H3	Clean and seal masonry surfaces		

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CURRENT LEVEL 2 (CL2) TO HARMONIZED LEVEL 2 (HL2)

	Current Level 2		Harmonized Level 2	Migration	Description of Changes
Line C	**Organize Work**	Line C	**Organize Work**		
C1	Use mathematics	C1	Use mathematics		
C2	Use drawings, specifications and documentation	C2	Use drawings, specifications and documentation		
Line D	**Perform Routine Mason Practices**	Line D	**Perform Routine Mason Practices**		
D2	Apply surface techniques			HL1←CL2	Content moved from CL2 into HL1 (into D2 Install envelop materials) -Apply parging -Waterproof/dampproof masonry surfaces
		D3	Use mortars, grouts and bonding agents	CL1→HL1/HL2/HL3	Split across HL1, HL2 and HL3 HL1=mortars, grouts, admixtures, mix and use mortars HL2=grouts, admixtures, concrete/grout for block fill, bonding agents HL3=mortars, admixtures, mix and use mortars, concrete/grout for block fill, bonding agents
Line E	**Apply Masonry Systems**	Line E	**Apply Masonry Systems**		
E2	Build load-bearing walls and columns	E2	Build load-bearing walls and columns		
E3	Build horizontal Masonry	E3	Build horizontal masonry	CL2→HL2/HL3	Content split between: HL2=lay horizontal surfaces

	Current Level 2		Harmonized Level 2	Migration	Description of Changes
					HL3= horizonal substrate, prepare masonry units for horizonal surfaces, lay horizonal surfaces
		E4	Build and install prefabricated masonry	HL2←CL3	Entire competency moved from CL3 to HL2 -build and install pre-fabricated masonry
E5	Install surface bonded masonry units	E5	Install surface bonded masonry units		
Line F	Apply Stone Systems	Line F	Apply Stone Systems		
F1	Install stone veneer	F1	Install stone veneer		
F2	Install stone cladding			CL2→HL3	Entire competency moved from CL2 to HL3 -prepare walls for stone cladding, prepare stones for cladding, install stones
Line G	Build Chimneys, Fireplaces and Refractory Materials	Line G	Build Chimneys, Fireplaces and Refractory Materials		
G1	Lay masonry units	G1	Lay masonry units	CL2→HL2/HL3	Content was split between HL2= chimneys (not an overlap) HL3= foundation supports; hearths and fireboxes, chimneys, dampers, flue liners
Line H	Perform Restoration	Line H	Preform Restoration		
H1	Rebuild masonry work	H1	Rebuild masonry work		
H2	Restore existing masonry work	H2	Restore existing masonry work		

	Current Level 2		Harmonized Level 2	Migration	Description of Changes
Line I	**Perform Specialized Masonry Work**	Line I	**Perform Specialized Masonry Work**		
		I1	Install glass blocks	HL2←CL3	Content moved from CL3 to HL2, specifically -prepare site -lay out glass blocks
		I3	Build arches	HL2/HL3←CL3	Content split across HL2 and HL3 HL2 = Prepare sites for arches; build, place, and remove templates; install arch masonry units HL3 = complex arches (not a gap)

CURRENT LEVEL 3 (CL3) TO HARMONIZED LEVEL 3 (HL3)

	Current Level 3		Harmonized Level 3	Migration	Description of Changes
Line C	**Organize Work**	Line C			
C1	Use mathematics	C1	Use mathematics		
C2	Use drawings, specifications and documentation	C2	Use drawings, specifications and documentation		
		C4	Use mentoring techniques		NEW
Line D	**Perform Routine Mason Practices**	Line D	**Perform Routine Mason Practices**		
		D3	Use mortars, grouts and bonding agents	CL1 →HL1/HL2/HL3	Split across HL1, HL2 and HL3 HL1=mortars, grouts, admixtures, mix and use mortars HL2=grouts, admixtures, concrete/grout for block fill, bonding agents HL3=mortars, admixtures, mix and use mortars, concrete/grout for block fill, bonding agents
Line E		Line E	**Apply Masonry Systems**		
		E3	Build horizontal masonry	CL2→HL2/HL3	Content split between: HL2=lay horizonal surfaces HL3= horizontal substrate, prepare masonry units for horizontal surfaces, lay horizontal surfaces

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	Current Level 3		Harmonized Level 3	Migration	Description of Changes
E4	Build and install pre-fabricated masonry			HL2←CL3	Entire competency moved from HL2←CL3: -build and install pre-fabricated masonry
Line F	**Apply Stone Systems**	Line F	**Apply Stone Systems**		
		F2	Install stone cladding	CL2→HL3	Entire competency moved from CL2 to HL3 -prepare walls for stone cladding, prepare stones for cladding, install stones
Line G	**Build Chimneys, Fireplaces and Refractory Materials**	Line G	**Build Chimneys, Fireplaces and Refractory Materials**		
		G1	Lay masonry units	CL2→HL2/HL3	Content was split between HL2= chimneys (not an overlap) HL3= foundation supports; hearths and fireboxes, chimneys, dampers, flue liners
G2	Install refractory materials for heat-resistant applications	G2	Install refractory materials for heat-resistant applications		
G3	Install corrosion resistant materials for corrosion resistant applications	G3	Install corrosion resistant materials for corrosion resistant applications		
Line H	**Perform Restoration**	Line H	**Perform Restoration**		
H2	Restore existing masonry work	H2	Restore exiting masonry work		

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	Current Level 3		**Harmonized Level 3**	**Migration**	**Description of Changes**
Line I	**Perform Specialized Masonry Work**	**Line I**	**Perform Specialized Masonry Work**		
I1	Install glass blocks			HL2←CL3	Content moved from CL3 to HL2, specifically -prepare site -lay out glass blocks
I2	Install ornamental and sculptured masonry	I2	Install ornamental and sculptured masonry		
I3	Build arches	I3	Build arches	HL2/HL3←CL3	Content split across HL2 and HL3 HL2= Prepare sites for arches; build, place, and remove templates; install arch masonry units HL3 =includes complex arches (not a gap)