

Issued: March 1, 2018

Program: Glazier

To: ITA Training Providers
School Districts

Subject: **Glazier Program Outline Update**

OPSN No.: **OPSN 2017 007**

Effective Date: **September 1, 2018**

Summary of Change: Please be advised that changes have occurred to the Glazier program as part of the program development cycle. The updated Glazier program will be implemented effective September 1, 2018.

Rationale: At the request of industry, the Glazier program has undergone a program review to ensure alignment with the current National Occupational Analysis (2012).

Details: Upon completion of the program update, the following changes will be implemented:

1. Occupational Description: an update to the current trade description in order to accurately capture the broad scope of tasks performed by a Glazier.
2. Recommended Education: removal of Science 10 to remove perceived barriers preventing entry to the trade.
3. Program Outline: addition of content from the NOA previously not captured, as well as resequencing of some content between levels to meet industry needs.

Standard Level Exams for this trade will be piloted with the new program and the launch will be announced at a later date with a follow-up OPSN.

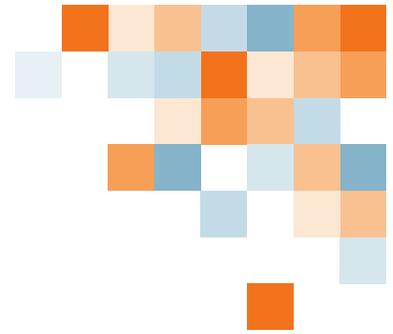
Attachments: ***Glazier Implementation Package***

This attachment includes the following information:

- Intended transition path for apprentices;
- Gaps and overlaps in content as experienced by apprentices through this transition; and
- Mapping of competencies from the old program to the new.

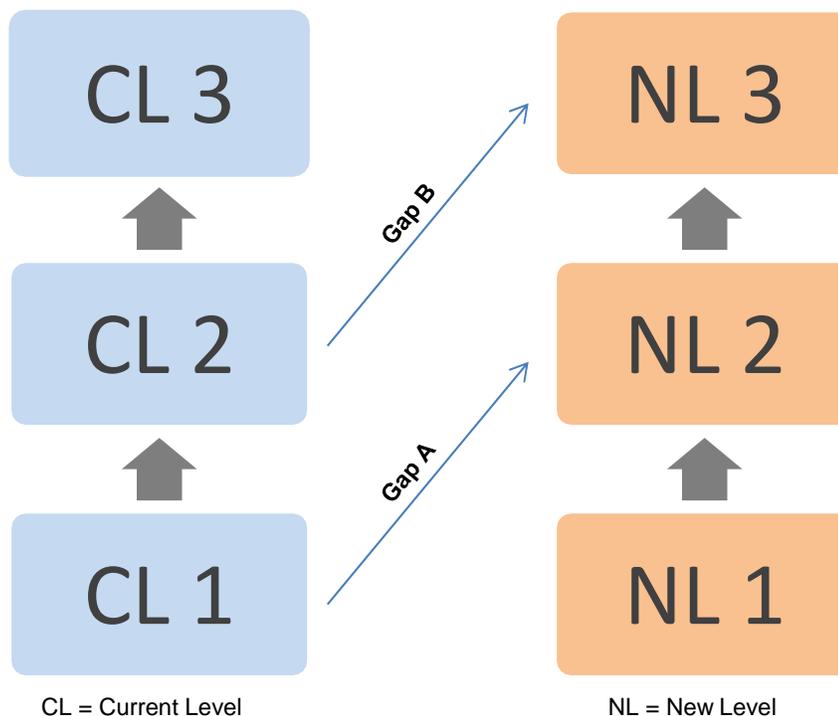
For more information contact: ITA Program Standards
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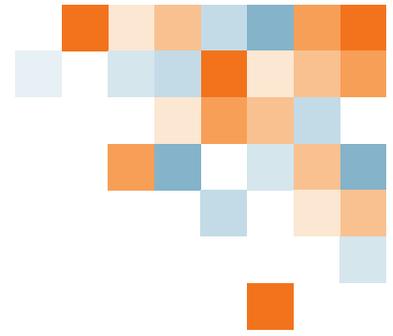
Glazier Implementation

The Glazier Program Outline was revised in 2017 to ensure alignment with the current NOA (2012) and to address changes recommended by industry. As a result, the updated Glazier Program Outline reflects changes to the technical training sequencing, as well as the introduction of some new content. The gaps for apprentices are not significant, allowing for an immediate transition into the new program. See below for details.



According to the figure above, students with:

- Current Level 1 can transition straight into New Level 2 (and NL3 thereafter).
 - These students will experience Gap A (missing specific content) and Overlap A, repetition of other content.
- Current Level 1 and 2 can transition into New Level 3.
 - These students will experience Gap B (missing specific content) and Overlap B, repetition of other content.



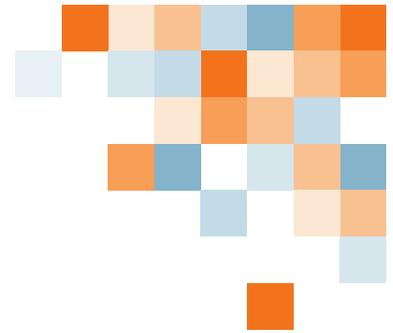
GAP/OVERLAP A:

Those who have CL1 and move to NL2 + NL3 will have the following gaps:

LINE	NEW COMPETENCY TITLES	New Lvl	Old Lvl	LINE	PREVIOUS COMPETENCY TITLES
B7	Communicate with others	1	0	NEW	
C7	Operate mobile access equipment	1	0	NEW	Mostly an expansion of “Aerial work platforms” and remaining content is new.
E1	Install storefront systems	1	1	NEW/ E1	Fabricate and Install Storefront Systems (uses the assemble/install portion of E1 and then new content)
E3	Install curtain walls	1	2	E3	Fabricate and Install Curtain Walls

They will face the following overlap (repeat) in content:

LINE	NEW COMPETENCY TITLES	New Lvl	Old Lvl	LINE	PREVIOUS COMPETENCY TITLES
C6	Use rigging and hoisting equipment	3	1	B6	Use Rigging and Hoisting Equipment



GAP/OVERLAP B:

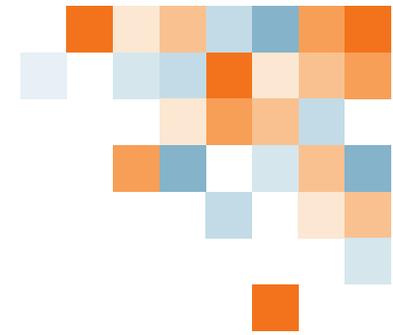
Those who have CL1 + CL2 and move to NL3 will have the following gaps:

LINE	NEW COMPETENCY TITLES	New Lvl	Old Lvl	LINE	PREVIOUS COMPETENCY TITLES
D1	Fabricate storefront systems	2	3	E1	Fabricate and Install Storefront Systems

They will face the following overlap (repeat) in content:

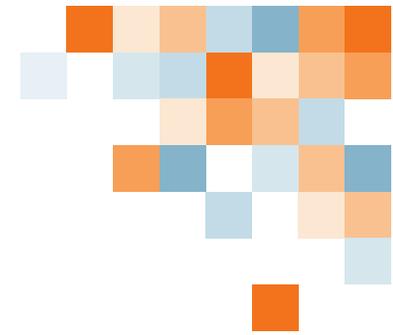
LINE	NEW COMPETENCY TITLES	New Lvl	Old Lvl	LINE	PREVIOUS COMPETENCY TITLES
C6	Use rigging and hoisting equipment	3	1	B6	Use Rigging and Hoisting Equipment
D4	Fabricate skylights and sloped glazing systems	3	2	E4	Fabricate and Install Skylights and Sloped Glazing Systems
D5	Fabricate commercial entrance systems	3	2	E5	Fabricate and Install Commercial Entrance Systems
E5	Install commercial entrance systems	3	2	E5	Fabricate and Install Commercial Entrance Systems
F2	Glaze residential windows and doors	3	2	F1	Glaze Residential Windows and Doors
F4	Install shower enclosures, mirrors and backpainted glass	3	2	F2	Install Showers, Mirrors and Solariums (although the actual installation portion is new)

For a detailed view of how the existing competencies were changed and re-sequenced, please see the Competency Migration Chart in the following pages.

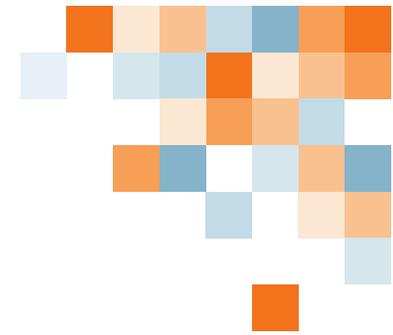


COMPETENCY MIGRATION CHART – LEVEL 1

LINE	NEW COMPETENCY TITLES	New Level	Old Level	LINE	PREVIOUS COMPETENCY TITLES
A1	Control workplace hazards	1	1	A1	Control Workplace Hazards
A2	Apply OHS Regulations and WCB Standards	1	1	A2	Locate OSH Regulations and WCB Standards
A3	Use Global Harmonized System 2015 (WHMIS) Certification	1	1	A3	Use WHMIS
A4	Use personal protective equipment	1	1	A4	Use Personal Protective Equipment
A5	Practice fire prevention	1	1	A5	Practice Fire Prevention
A6	Apply Level 1 First Aid practices	1	1	A6	Attain First Aid Certification
A7	Use fall protection systems	1	1	A7	Use Fall Protection Systems
B1	Interpret drawings and specifications	1	1	C1	Interpret Drawings and Specifications
B4	Apply trade math	1	1	C4	Use Mathematics (minus “Calculate weights for glass”)
B5	Plan sequence of work	1	1	D1	Prepare the Worksite
B6	Handle materials	1	1	C5	Handle Materials
B7	Communicate with others	1	0	NEW	
C1	Use hand tools	1	1	B1	Use Hand Tools
C2	Use portable power tools	1	1	B2	Use Portable Power Tools
C3	Use stationary power tools	1	1	B3	Use Stationary Power Tools
C4	Use layout and measuring equipment	1	1	B4	Use Layout and Measuring Equipment

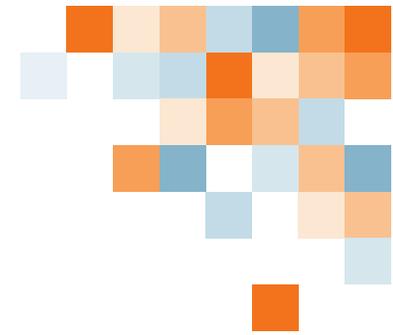


LINE	NEW COMPETENCY TITLES	New Level	Old Level	LINE	PREVIOUS COMPETENCY TITLES
C5	Use ladders and scaffolds	1	1	B5	Use Ladders and Platforms (minus “Aerial work platforms” – that falls under new C7)
C6	Use rigging and hoisting equipment	1	1	B6	Use Rigging and Hoisting Equipment (minus “Use hoisting, lifting and rigging equipment” – that is now under new Level 3, C6)
C7	Operate mobile access equipment	1	1	B5	Use Ladders and Platforms (specifically the “Aerial work platforms” content)
			0	NEW	Mostly an expansion of “Aerial work platforms”, and remaining content is new.
D1	Fabricate storefront systems	1	1	E1	Fabricate and Install Storefront Systems
D3	Fabricate curtain walls	1	1	E3	Fabricate and Install Curtain Walls (minus glaze curtain wall – that falls under new E3)
D7	Perform glass cutting and edge treatment	1	1	D2	Perform Glass Cutting and Edge Treatment
E1	Install storefront systems	1	1	NEW/ E1	Fabricate and Install Storefront Systems (uses the assemble/install portion of E1 and then new content ...)
E3	Install curtain walls	1	1, 2	E3	Fabricate and Install Curtain Walls – “glaze curtain wall” from L1 plus all of L2 content.
E7	Install building envelope membranes	1	1	D3	Install Building Envelope Membranes
E9	Use caulking and sealants	1	1	D5	Use Caulking and Sealants (minus “apply gaskets and vinyl”)



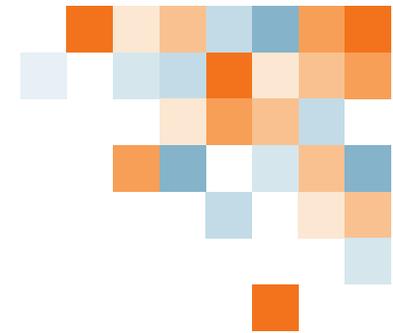
COMPETENCY MIGRATION CHART – LEVEL 2

LINE	NEW COMPETENCY TITLES	New Level	Old Level	LINE	PREVIOUS COMPETENCY TITLES
B1	Interpret drawings and specifications	2	2	B1	Interpret Drawings and Specifications
B4	Apply trade math	2	2	C4	Use Mathematics
D1	Fabricate storefront systems	2	2, 3	E1	Fabricate and Install Storefront Systems
D2	Fabricate window systems	2	2	E2	Fabricate and Install Window Systems
D3	Fabricate curtain walls	2	2	E3	Fabricate and Install Curtain Walls
D7	Perform glass cutting and edge treatment	2	2	D2	Perform Glass Cutting & Edge Treatment
E1	Install storefront systems	2	2	E1	Fabricate and Install Storefront Systems
E2	Install window systems	2	2	E2	Fabricate and Install Window Systems
E3	Install curtain walls	2	2	E3	Fabricate and Install Curtain Walls
E4	Install skylights and sloped glazing systems	2	2	E4	Fabricate and Install Skylights and Sloped Glazing Systems
E8	Install flashing	2	2	D4	Install Flashing
E9	Use caulking and sealants	2	2	D5	Use Caulking and Sealants
F3	Install residential skylights and solariums	2	2	F2	Install Showers, Mirrors & Solariums (plus new content about actually installing the solarium)
F4	Install shower enclosures, mirrors and backpainted glass	2	2	F2	Install Showers, Mirrors & Solariums (plus additional content re: backpainted glass)



COMPETENCY MIGRATION CHART – LEVEL 3

LINE	NEW COMPETENCY TITLES	New Level	Old Level	LINE	PREVIOUS COMPETENCY TITLES
B1	Interpret drawings and specifications	3	3	C1	Interpret Drawings and Specifications
B2	Use codes, regulations and standards	3	3	C2	Use Codes, Regulations and Standards
B3	Apply manufacturer and supplier documentation	3	3	C3	Use Manufacturer and Supplier Documentation
B4	Apply trade math	3	3	C4	Use Mathematics
B5	Plan sequence of work	3	3	D1	Prepare the Worksite
B7	Communicate with others	3	0	NEW	
C4	Use layout and measuring equipment	3	3	B4	Use Layout and Measuring Equipment
C6	Use rigging and hoisting equipment	3	1	B6	Use Rigging and Hoisting Equipment
D4	Fabricate skylights and sloped glazing systems	3	2	E4	Fabricate and Install Skylights and Sloped Glazing Systems
D5	Fabricate commercial entrance systems	3	2	E5	Fabricate and Install Commercial Entrance Systems
D6	Fabricate guard rail, handrail and balustrade system	3	0	NEW	
D7	Perform glass cutting and edge treatment	3	3	D2	Perform Glass Cutting and Edge Treatment (minus the edge treatment, which we're leaving in L2 and not repeating here)
E4	Install skylights and sloped glazing systems	3	0	NEW	



LINE	NEW COMPETENCY TITLES	New Level	Old Level	LINE	PREVIOUS COMPETENCY TITLES
E5	Install commercial entrance systems	3	2	E5	Fabricate and Install Commercial Entrance Systems
			3	G3	Install Specific Specialty Systems (LT 4)
E6	Install guard rail, handrail and balustrade systems	3	3	G3	Install Specific Specialty Systems (LT 10)
E9	Use caulking and sealants	3	0	NEW	
F1	Lay out residential window and door systems	3	0	NEW	
F2	Glaze residential windows and doors	3	2	F1	Glaze Residential Windows and Doors
F4	Install shower enclosures, mirrors and backpainted glass	3	2	F2	Install Showers, Mirrors and Solariums (although the actual installation portion is new)
F5	Install guard rail, handrail and balustrade systems	3	0	NEW	
F6	Install residential windows, doors, frames and hardware	3	0	NEW	
G1	Layout specialty glass and products	3	3	G1	Layout Specialty Glass and Products
			3	G2	Assemble Specialty Glass and Products
G2	Assemble specialty glass and products	3	3	G2	Assemble Specialty Glass and Products
			0	NEW	Servicing content is new.
G3	Install custom glazing systems	3	3	G3	Install Specific Specialty Systems
H1	Service commercial window and door systems	3	3	H1	Service and Maintain Glazing Systems
H2	Service residential window and door systems	3	3	H1	Service and Maintain Glazing Systems