

Trade Profile

Glazier



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RED SEAL

TRADE PROFILE

GLAZIER



STRUCTURE OF THE TRADE PROFILE

This profile has two sections that provide a snapshot of the trade's description, and all trade activities as they are organized in the Red Seal Occupational Standard:

Description of the Glazier trade: an overview of the trade's duties, work environment, job requirements, similar occupations and career progression

Task Matrix: a chart which outlines graphically the major work activities, tasks and sub-tasks of this trade

Major Work Activity (MWA): the largest division within the standard that is comprised of a distinct set of trade activities

Task: distinct actions that describe the activities within a major work activity

Sub-task: distinct actions that describe the activities within a task

A complete version of the occupational standard, which provides additional detail for the trade activities, skills and knowledge can be found at www.red-seal.ca.

DESCRIPTION OF THE GLAZIER TRADE

“Glazier” is this trade’s official Red Seal occupational title approved by the CCDA. This standard covers tasks performed by glaziers whose occupational title has been identified by provinces and territories of Canada under the following names:

	NL	NS	PE	NB	QC	ON	MB	SK	AB	BC	NT	YT	NU
Glazier	■	■	■	■			■	■	■	■	■	■	■
Architectural Glass and Metal Technician						■							
Erector Mechanic (Glazier)					■								

Glaziers measure, handle, cut, prepare, fit, install, replace and repair all types of glass and glass substitutes, typically in industrial, commercial, institutional and residential applications. In these applications, they fabricate, lay out and install curtain wall framing, windows, doors, structural silicone glazing (SSG), skylights, sloped glazing and storefront frames. In residential applications, they install doors, windows, skylights, mirrors, shower doors, specialty glass and backsplash.

Glaziers also install specialty glass products such as glass railings/guardrails, smoke baffles, shower enclosures, and glass and mirror walls. Other duties include layout, preparation, fabrication and replacement of architectural metal systems and components in applications such as partition glass, entranceways, windows, sunshades, insulated glass, points-supported glazing and fittings, panels and pre-glazed curtain walls, including the respective seals, sealants, anchors and fasteners.

Most glaziers work on construction, service or renovation (retrofitting) projects. Specialty areas of this trade include installing skylights and other special glassworks like electrochromic glass, photovoltaic panels, fire-rated glass and compatible systems, obscured glass, patterned glass, ballistic/bomb-resistant glass in security areas, leaded x-ray glass in hospitals, low-iron glass for showcases in museums and acid-etched glass for bird-friendly glazing applications. Glaziers are employed by construction glass installation contractors, fabrication shops, retail service and repair shops. They may also be self-employed.

Besides working with glass, glaziers also work with plastics, granite, and other similar materials used as glass substitutes, as well as films or laminates that improve the durability or safety of the glass. Glaziers are also involved in manufacturing display cabinets and decorative windows. They may also be requested to create custom-designed glass installations for residential and commercial use.

Glaziers require good reading, writing and communication skills, as well as mathematical ability to accomplish tasks within their trade. Physical strength and stamina are necessary to work with heavy glass materials, and good eyesight is needed to measure, cut and detect flaws in glass and other materials. Manual dexterity and the ability to work alone and in teams are important qualities for those working in this trade. As well, analytical ability and troubleshooting skills are important assets in this trade, especially in the context of renovation and repair projects involving older structures and products.

Glaziers work in a variety of environments; some work outdoors on construction sites while others work indoors, in shops. When working on commercial applications, glaziers are expected to work from power-elevated work platforms, scaffolds and suspended work platform systems, sometimes at great heights, to manoeuvre glass panels that are lifted by cranes and other lifting equipment. Glaziers do a considerable amount of bending, kneeling, lifting, and standing during the installation process. There are some risks of injuries from falls from heights, lifting heavy materials, repetitive actions, sharp edges and broken glass.

This standard recognizes similarities or overlaps with the work of carpenters, sheet metal workers, concrete finishers, operating engineers, electricians, roofers, bricklayers, tilers and ironworkers.

With experience, glaziers may act as mentors and trainers to apprentices in the trade. Glaziers may advance to supervisory positions such as foreperson, contract managers, project managers, consultants, inspectors, instructors, or set up their own shops.

GLAZIER

TASK MATRIX

A – Performs common occupational skills

17%

Task A-1 Performs safety-related functions 12%	A-1.01 Maintains a safe work environment	A-1.02 Uses personal protective equipment (PPE) and safety equipment	
Task A-2 Uses tools and equipment 22%	A-2.01 Uses hand tools	A-2.02 Uses portable and stationary power tools	A-2.03 Uses layout and measuring equipment
	A-2.04 Uses access equipment		
Task A-3 Uses rigging, hoisting and lifting equipment 13%	A-3.01 Uses rigging equipment	A-3.02 Uses hoisting and lifting equipment	
Task A-4 Organizes work 15%	A-4.01 Uses documentation and reference material	A-4.02 Interprets plans, drawings and specifications	A-4.03 Prepares list of materials and supplies
	A-4.04 Plans project tasks		

Task A-5
Performs routine trade activities
29%

A-5.01 Prepares worksite	A-5.02 Handles glass and other materials	A-5.03 Prepares materials for installation
A-5.04 Stores glass and other materials	A-5.05 Performs glass cutting and edge treatment	A-5.06 Installs building envelope membranes
A-5.07 Installs flashing	A-5.08 Applies sealants	

Task A-6
Uses communication and mentoring techniques
9%

A-6.01 Uses communication techniques	A-6.02 Uses mentoring techniques
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B – Fabricates and installs commercial window and door systems

34%

Task B-7
Fabricates commercial window and door systems
35%

B-7.01 Fabricates curtain walls	B-7.02 Fabricates storefronts	B-7.03 Fabricates window systems
B-7.04 Fabricates skylights and sloped glazing systems	B-7.05 Fabricates entrance systems	

Task B-8
Installs commercial window and door systems
65%

B-8.01 Lays out commercial window and door systems	B-8.02 Installs curtain wall systems	B-8.03 Installs storefront systems
B-8.04 Installs window systems	B-8.05 Installs skylights and sloped glazing systems	B-8.06 Installs entrance systems

C – Installs residential window and door systems

14%

<p>Task C-9 Installs residential window systems 61%</p>	<p>C-9.01 Lays out residential window systems</p>	<p>C-9.02 Sets windows in openings</p>	<p>C-9.03 Glazes windows</p>
<p>Task C-10 Installs residential door systems 39%</p>	<p>C-10.01 Lays out residential door systems</p>	<p>C-10.02 Assembles residential door frames</p>	<p>C-10.03 Sets residential doors and frames</p>
	<p>C-10.04 Installs residential door hardware</p>	<p>C-10.05 Glazes residential doors</p>	

D – Fabricates and installs specialty glass, products and glass systems

16%

<p>Task D-11 Fabricates and installs commercial specialty glass and products 69%</p>	<p>D-11.01 Lays out commercial specialty glass and products</p>	<p>D-11.02 Assembles commercial specialty glass, products and hardware</p>	<p>D-11.03 Installs commercial specialty glass, products and hardware</p>
<p>Task D-12 Fabricates and installs residential specialty glass and products 31%</p>	<p>D-12.01 Lays out residential specialty glass and products</p>	<p>D-12.02 Assembles residential specialty glass, products and hardware</p>	<p>D-12.03 Installs residential specialty glass, products and hardware</p>

E – Performs servicing

19%

Task E-13 Services commercial window and door systems 58%	E-13.01 Assesses service requirements for commercial window and door systems	E-13.02 Repairs commercial window and door systems
Task E-14 Services residential window and door systems 24%	E-14.01 Assesses service requirements for residential window and door systems	E-14.02 Repairs residential window and door systems
Task E-15 Services specialty glass and products 18%	E-15.01 Assesses service requirements for specialty glass and products	E-15.02 Repairs specialty glass and products