

Trade Profile

Construction Craft Worker



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Red Seal Trade Profile

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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 Construction Craft Worker 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 Construction Craft Worker Trade

“Construction Craft Worker” is this trade’s official Red Seal occupational title approved by the CCDA. This standard covers tasks performed by construction craft workers.

Construction craft workers work mostly on construction sites; their tasks include site preparation, environmental protection and cleanup, setting up and removing access equipment, and working on concrete, masonry, steel, wood and pre-cast erecting projects. They handle materials and equipment and perform demolition, excavation and compaction activities. They may also perform site safety and security checks.

Construction craft workers work on a wide variety of structures such as residential, and industrial, commercial and institutional (ICI) sites, as well as hydroelectric dams, roadways, bridges, tunnels, mines and railways. In some jurisdictions, they may also work on utility, landscape and pipeline projects. Construction craft workers may work for private companies as well as municipal, provincial and federal governments.

With experience, construction craft workers who complete additional training may specialize in different areas of construction. This can include drilling, blasting, scaling, media blasting, high-pressure washing, diving, tunnelling and performing emergency rescue. Another common responsibility is the management of pedestrian and vehicular traffic in situations involving potential hazards and public trust.

Construction craft workers work primarily outdoors, in all weather conditions. They are often required to work at heights, over water and in confined spaces and excavations. Their job settings may be in densely populated urban settings or at remote locations. They often work overtime during peak construction periods.

Key attributes for workers in this trade are mechanical aptitude, manual dexterity, being fit for duty and an ability to do hard physical work. They also support a variety of different trades on the construction site to complete their tasks. They sometimes interact directly with the public where considerations such as safety and legal liability are at issue. Organizational, leadership, problem solving, and document interpretation skills are assets for anyone wanting to progress in this trade.

This standard acknowledges similarities with many construction trades. With experience construction craft workers may have opportunities to advance.

Task Matrix and Weightings

Major Work Activity A – Performs common occupational skills 18%

Task A-1 Maintains safe and healthy workplace 19%	Sub-task A-1.01 Maintains safe work environment	Sub-task A-1.02 Uses personal protective equipment (PPE) and safety equipment	Sub-task A-1.03 Participates in healthy and respectful work environment
Task A-2 Uses and maintains tools and equipment 27%	Sub-task A-2.01 Uses hand, pneumatic, power and powder-actuated tools	Sub-task A-2.02 Uses rigging and hoisting equipment	Sub-task A-2.03 Uses stationary and portable equipment
	Sub-task A-2.04 Uses media blasting equipment	Sub-task A-2.05 Uses mobile equipment	
Task A-3 Organizes work 18%	Sub-task A-3.01 Uses documentation	Sub-task A-3.02 Handles construction materials	Sub-task A-3.03 Performs site housekeeping and maintenance
Task A-4 Performs routine trade activities 30%	Sub-task A-4.01 Erects hoarding/enclosures	Sub-task A-4.02 Installs membranes	Sub-task A-4.03 Installs insulating materials
	Sub-task A-4.04 Establishes grades and elevations	Sub-task A-4.05 Performs traffic control	Sub-task A-4.06 Installs permanent and temporary fencing

Task A-5 Maintains continuous learning 3%	Sub-task A-5.01 Upskills in new trade practices and procedures	Sub-task A-5.02 Upskills in emerging technologies
Task A-6 Uses communication and mentoring techniques 3%	Sub-task A-6.01 Uses communication techniques	Sub-task A-6.02 Uses mentoring techniques

Major Work Activity B – Performs site work

20%

Task B-7 Prepares site 22%	Sub-task B-7.01 Clears site	Sub-task B-7.02 Sets up site facilities	Sub-task B-7.03 Assists in installation of pilings and caissons
	Sub-task B-7.04 Builds access and egress roads		
Task B-8 Performs groundwork 24%	Sub-task B-8.01 Locates underground utilities	Sub-task B-8.02 Performs excavation	Sub-task B-8.03 Installs excavation shoring and shielding
	Sub-task B-8.04 Performs backfill and compaction		

Task B-9 Services site 19%	Sub-task B-9.01 Addresses suspected hazardous materials	Sub-task B-9.02 Controls water runoff	Sub-task B-9.03 Sets up temporary lighting
	Sub-task B-9.04 Sets up generators and compressors	Sub-task B-9.05 Performs site restoration	Sub-task B-9.06 Manages tool crib
	Sub-task B-9.07 Recycles materials		
Task B-10 Performs basic demolition 18%	Sub-task B-10.01 Cuts materials	Sub-task B-10.02 Dismantles existing structures and components	
Task B-11 Performs safety watches 17%	Sub-task B-11.01 Monitors hazardous gases and atmospheres	Sub-task B-11.02 Performs fire watch	Sub-task B-11.03 Performs bottle watch
	Sub-task B-11.04 Performs confined space watch	Sub-task B-11.05 Monitors heaters	

Major Work Activity C – Uses scaffolding and access equipment 10%

Task C-12 Uses scaffolding 54%	Sub-task C-12.01 Erects scaffolding	Sub-task C-12.02 Inspects scaffolding	Sub-task C-12.03 Maintains scaffolding
	Sub-task C-12.04 Tends to scaffold erectors	Sub-task C-12.05 Dismantles scaffolding	

Task C-13 Uses access equipment 46%	Sub-task C-13.01 Uses ladders	Sub-task C-13.02 Uses stationary and mobile elevating work platforms (MEWP)	Sub-task C-13.03 Inspects access equipment
	Sub-task C-13.04 Maintains access equipment		

Major Work Activity D – Performs concrete work

19%

Task D-14 Forms concrete 26%	Sub-task D-14.01 Installs formwork and shoring	Sub-task D-14.02 Inspects assembled formwork	Sub-task D-14.03 Dismantles formwork
Task D-15 Places and finishes concrete 35%	Sub-task D-15.01 Mixes concrete	Sub-task D-15.02 Transports concrete on site	Sub-task D-15.03 Places concrete
	Sub-task D-15.04 Installs embedded components in concrete	Sub-task D-15.05 Assists with finishing concrete	Sub-task D-15.06 Controls concrete curing process
Task D-16 Modifies concrete 23%	Sub-task D-16.01 Drills/cores/cuts concrete	Sub-task D-16.02 Prepares concrete for resurfacing	Sub-task D-16.03 Performs concrete repair and refinishing
	Sub-task D-16.04 Creates expansion, control and isolation joints		
Task D-17 Places/Applies grout, epoxies, caulking and chemical materials 16%	Sub-task D-17.01 Places/Applies grout	Sub-task D-17.02 Places/Applies epoxies and chemical materials	Sub-task D-17.03 Applies caulking

Major Work Activity E – Performs masonry work**12%**

Task E-18 Prepares for masonry work 44%	Sub-task E-18.01 Sets up masonry materials	Sub-task E-18.02 Mixes mortars and grouts	
Task E-19 Tends to bricklayers 56%	Sub-task E-19.01 Cuts masonry units	Sub-task E-19.02 Assists with installation of lintels and rough bucks	Sub-task E-19.03 Washes masonry units
	Sub-task E-19.04 Installs refractory materials	Sub-task E-19.05 Uses fireproofing materials	

Major Work Activity F – Performs utility and pipeline work**11%**

Task F-20 Installs piping for utilities 61%	Sub-task F-20.01 Installs pipe for water systems	Sub-task F-20.02 Installs pipe for sanitary and storm sewer systems	Sub-task F-20.03 Installs pipe for other utility infrastructure
	Sub-task F-20.04 Installs catch basins, utility vaults, weeping tile and maintenance holes	Sub-task F-20.05 Modifies existing pipe	Sub-task F-20.06 Assists with testing water, sanitary and storm sewer lines
Task F-21 Performs pipeline activities 39%	Sub-task F-21.01 Constructs right of ways	Sub-task F-21.02 Performs pipeline installation	Sub-task F-21.03 Performs pipeline maintenance

Major Work Activity G – Performs roadwork

10%

Task G-22 Prepares and builds roads 57%	Sub-task G-22.01 Prepares earth for right of way	Sub-task G-22.02 Places layers and road surface materials for roadwork	Sub-task G-22.03 Repairs road surfaces
Task G-23 Installs roadwork components 43%	Sub-task G-23.01 Installs barriers	Sub-task G-23.02 Installs road markings and signs	Sub-task G-23.03 Installs culverts