

Scaffolder

A Guide to Course Content

2022

Scaffolders lay out, assemble, erect uses, maintain and dismantle scaffolding including access scaffold, shoring, falsework, bleachers and stages.

Training Requirements: To graduate from each level of the apprenticeship program, an apprentice must successfully complete the required technical training and compile enough on-the-job experience to total at least 1500 hours each year. Total trade time required is 6000 hours and at least 4 years in the trade.

There are four levels of technical training delivered by Prairie Arctic Trade Training Centre in various locations throughout Saskatchewan using a variety of delivery methods:

- Level One: 3 weeks or equivalent
- Level Two: 3 weeks or equivalent
- Level Three: 3 weeks or equivalent
- Level Four: 3 weeks or equivalent

The information contained in this pamphlet serves as a guide for employers and apprentices. The pamphlet briefly summarizes the training delivered at each level of apprenticeship training. An apprentice spends approximately 15% of the apprenticeship term in a technical training institute learning the technical and theoretical aspects of the trade. The hours and percentages of technical and practical training may vary according to class needs and progress.

The content of the technical training components is subject to change without notice.

Level One - 3 Weeks or Equivalent

Personal Protective Equipment

- Occupational Health & Safety (OH&S) regulations
- personal protective equipment

Fall Protection

- OH&S regulations
- harnesses
- lifelines
- fall protection (certificate issued)

Nets and Fans

- OH&S regulations
- component descriptions
- techniques and uses

Material Handling

- manual lifting and hoisting techniques
- basic knots and hitches
- scaffolding component hand signals
- handling, organizing and storage of scaffolding materials

Tools

- hand tools
- portable saws and drills
- stationary power equipment - table saw, mitre saw, drill press

Ladders

- OH&S requirements
- temporary construction ladders
- metal ladders
- rope ladders

Scaffolding Basics

- OH&S Regulations
- Canadian Standards Association (CSA) applicable scaffolding requirements
- comparison of CSA to OH&S regulations
- terminology
- scaffold tags
- scaffold types
- frame scaffolds
- rolling frame scaffolds

Wooden Scaffolds

- OH&S requirements
- CSA applicable scaffolding requirements
- Comparison of CSA to OH&S regulations
- double pole scaffolds

Trade Math

Level Two - 3 Weeks or Equivalent

Rigging and Hoisting

- hoisting methods
- fibre and wire ropes
- advanced knots and hitches
- knowledge of weights and loads
- rigging accessories
- international hand signals
- powered industrial truck operator certificate program (forklift operator and telehandler operator)
- mechanized lifting and hoisting techniques
- transportation and loading of material

Tools

- explosive actuated fastening tools
- stationary power tools - bench grinder

Tube and Clamp Scaffolds

- OH&S regulations
- CSA applicable scaffolding requirements
- Comparison of CSA to OH&S regulations
- component descriptions
- manufacturer's specifications
- platform load ratings
- building techniques
- rolling tube and clamp scaffolds

Commercial Engineered Drawings Interpretation

- engineered scaffolding drawings
- freehand sketching
- estimating tube and clamp scaffolds

Trade Math

Level Three - 3 Weeks or Equivalent

Respiratory Equipment

- OH&S regulations
- masks
- respirators

Survey Equipment

- building level use
- laser level use
- shooting elevations - metric, imperial and engineering rods

Site Preparation

- OH&S requirements
- recognizing site obstructions and dangers
- site facilities
- base preparation

Hoarding and Shelters

- OH&S regulations
- CSA applicable scaffolding requirements
- comparison of CSA to OH&S regulations
- uses
- wind loads
- erection and ventilation

Modular and System Scaffolds

- OH&S regulations
- CSA applicable scaffolding requirements
- Comparison of CSA to OH&S regulations
- component descriptions
- manufacturer's specifications
- building techniques

Suspended Scaffolds

- OH&S regulations
- CSA applicable scaffolding requirements
- Comparison of CSA to OH&S regulations
- component descriptions
- manufacturer's specifications
- applications
- building techniques

Performance Stages

- applicable National Building Code requirements
- specialized drawings
- special requirements

Swing Stages

- OH&S regulations
- component descriptions
- manufacturer's specifications
- calculating for suspension bearers and counterweights
- tie-back points
- building techniques

Industrial Engineered Drawings Interpretation

- industrial engineered drawings
- freehand sketching
- shoring drawings
- estimating modular and system scaffolds

Trade Math

Level Four - 3 Weeks or Equivalent

Safety

- OH&S regulations and requirements
- confined space (certificate issued)
- asbestos abatement awareness
- lock-out and tag-out procedures

Survey Equipment

- transit use
- turning angles

Shoring

- OH&S regulations
- specialized component descriptions
- manufacturer's specifications
- load capacities
- specialized drawings and estimating
- building techniques

Temporary Bleachers

- applicable National Building Code requirements
- manufacturer's specifications
- special requirements
- specialized drawings
- building techniques

Machine Scaffolds

- OH&S regulations
- CSA applicable scaffolding requirements
- Comparison of CSA to OH&S regulations
- types such as scissor lifts and telescoping boom
- applications
- Aerial Lift (certificate issued)

Boiler Scaffolds

- specialized component descriptions
- specialized drawings and estimating
- building techniques

Trade Math

FORM # 2022 072122

This information is subject to change without notice.