



# **Bricklayer**

# **On-the-Job Training Guide**

## **2024**

1-877-363-0536  
apprenticeship@gov.sk.ca  
saskapprenticeship.ca



Online: [www.saskapprenticeship.ca](http://www.saskapprenticeship.ca)

*Recognition:*

*To promote transparency and consistency, portions of this document has been adapted from the 2021 Bricklayer Red Seal Occupational Standard (Employment and Social Development Canada).*

A complete version of the Occupational Standard can be found at [www.red-seal.ca](http://www.red-seal.ca)

# STRUCTURE OF THE ON-THE-JOB TRAINING GUIDE

To facilitate understanding of the occupation, this guide to course content contains the following sections:

**Task Matrix:** a chart which outlines graphically the major work activities, tasks and sub-tasks of this standard detailing the essential skills and the level of training where the content is covered.

**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.

**On-the-Job Training Content for the Bricklayer Trade:** a chart which outlines the topics of technical training with on-the-job examples for apprentice to achieve relevant experience at work.

# TRAINING REQUIREMENTS FOR THE BRICKLAYER TRADE

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 three levels of technical training delivered by Saskatchewan Polytechnic in Saskatoon.

- Level One: 8 weeks
- Level Two: 8 weeks
- Level Three: 8 weeks

Journeyman to apprentice ratio for this trade is: 1:2

The information contained in this document serves as a guide for employers and apprentices. Apprenticeship training is mutually beneficial to both employer and apprentice. The employer's investment in training apprentices' results in skilled and certified workers. The document summarizes the tasks to be covered by the apprentice during their on-the-job portion of apprenticeship training. An apprentice spends approximately 85% of their apprenticeship term training on-the-job.

**It is the employer's or journeyman's responsibility to supervise an apprentice's practical skills development until a satisfactory level of proficiency has been reached.**

## EMPLOYER TRAINING RESPONSIBILITY

- promote a safety-conscious workplace
- provide mentored, hands-on practice in the use of tools and equipment
- demonstrate procedures relevant to the inspecting, diagnosing, servicing, repairing, replacing and overhauling of all components of an automobile, light truck or light bus
- provide the opportunity for apprentices to service the above systems and vehicles
- further the apprentice's ability to interpret technical drawings and schematics
- ensure that the apprentice can troubleshoot, diagnose and repair the vehicle and its systems

Employers should make every effort to expose their apprentices to work experience in as many areas of the trade as possible.

In the On-the-Job Training Guide, in-school instruction is listed first; on-the-job suggestions to help employers assist the apprentice to prepare for in-school training are listed next.

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

## Entrance Requirements for Apprenticeship Training

Your grade twelve transcripts (with no modified classes) or GED 12 is your guarantee that you meet the educational entrance requirements for apprenticeship in Saskatchewan. In fact, employers prefer and recommend apprentices who have completed high school. This ensures the individual has all of the necessary skills required to successfully complete the apprenticeship program and receive journeyman certification.

Individuals with “modified” or “general” classes in math or science do not meet our entry requirements. These individuals are required to take an entrance assessment prescribed by the SATCC.

English is the language of instruction in all apprenticeship programs and is the common language for business in Saskatchewan. Before admission, all apprentices and/or “upgraders” must be able to understand and communicate in the English language. Applicants whose first language is not English must have a minimum Canadian Language Benchmark Assessment of six (CLB6).

Note: A CLB assessment is valid for a one-year period from date of issue.

Designated Trade Name	Math Credit at the Indicated Grade Level❶	Science Credit at Grade Level
Bricklayer	Grade 10	Grade 10
<p>❶ - (One of the following) WA – Workplace and Apprenticeship; or F – Foundations; or P – Pre-calculus, or a Math at the indicated grade level (Modified and General Math credits are not acceptable.).</p> <p>*Applicants who have graduated in advance of 2015-2016, or who do not have access to the revised Science curricula will require a Science at the minimum grade level indicated by trade.</p> <p>For information about high school curriculum, including Math and Science course names, please see:  <a href="http://www.curriculum.gov.sk.ca/#">http://www.curriculum.gov.sk.ca/#</a></p> <p><b>Individuals not meeting the entrance requirements will be subject to an assessment and any required training</b></p>		

# BRICKLAYER TASK MATRIX

This chart outlines the major work activities, tasks and sub-tasks from the 2021 Bricklayer Red Seal Occupational Standard. Each sub-task details the corresponding essential skill and level of training where the content is covered. \*

\*Sub-tasks with numbers in the boxes are where the content will be delivered in training. Harmonization for the Bricklayer trade has been fully implemented for each technical training level.

## A - Performs common occupational skills

**12%**

<b>Task A-1 Performs safety-related functions</b>	<b>A-1.01 Maintains safe work environment</b>  1	<b>A-1.02 Uses personal protective equipment (PPE) and safety equipment</b>  1		
<b>Task A-2 Uses and maintains tools and equipment</b>	<b>A-2.01 Maintains tools and equipment</b>  1	<b>A-2.02 Uses rigging, hoisting and lifting equipment</b>  1	<b>A-2.03 Uses access equipment</b>  1	
<b>Task A-3 Uses scaffolding</b>	<b>A-3.01 Erects scaffolding</b>  1	<b>A-3.02 Dismantles scaffolding</b>  1	<b>A-3.03 Maintains scaffolding</b>  1	
<b>Task A-4 Organizes work</b>	<b>A-4.01 Uses drawings and specifications</b>  1, 2, 3	<b>A-4.02 Plans daily tasks and activities</b>  1	<b>A-4.03 Prepares jobsite and materials</b>  1	<b>A-4.04 Protects surrounding areas</b>  1
<b>Task A-5 Uses communication and mentoring techniques</b>	<b>A-5.01 Uses communication techniques</b>  1	<b>A-5.02 Uses mentoring techniques</b>  3		

## B - Performs general masonry practices

19%

<b>Task B-6 Performs substrate preparation</b>	<b>B-6.01 Prepares vertical substrates and foundations</b>  1	<b>B-6.02 Applies parging</b>  1	<b>B-6.03 Installs anchoring/tie systems</b>  1	<b>B-6.04 Installs membrane and flashing</b>  1	<b>B-6.05 Installs insulation</b>  1
<b>Task B-7 Performs fundamental masonry tasks</b>	<b>B-7.01 Lays out wall and coursing</b>  1	<b>B-7.02 Finishes joints</b>  1	<b>B-7.03 Cleans new masonry surfaces</b>  1	<b>B-7.04 Seals masonry surfaces</b>  1	
<b>Task B-8 Uses mortars, grouts and adhesives</b>	<b>B-8.01 Mixes mortar, concrete, grout and adhesives</b>  1, 2, 3	<b>B-8.02 Uses mortars</b>  1, 2, 3	<b>B-8.03 Uses concrete and grout</b>  1, 2, 3	<b>B-8.04 Uses adhesives</b>  1, 2, 3	

## C - Builds masonry systems

22%

<b>Task C-9 Builds masonry walls</b>	<b>C-9.01 Builds non-load-bearing walls</b>  1	<b>C-9.02 Builds load-bearing walls</b>  2
<b>Task C-10 Builds horizontal masonry surfaces</b>	<b>C-10.01 Prepares horizontal substrate</b>  3	<b>C-10.02 Lays masonry units on horizontal surfaces</b>  3
<b>Task C-11 Builds and installs prefabricated masonry</b>	<b>C-11.01 Builds prefabricated masonry</b>  2	<b>C-11.02 Erects prefabricated masonry</b>  2

**Task C-12 Installs surface-bonded masonry units**

**C-12.01 Prepares substrate for surface-bonded masonry units**

2

**C-12.02 Applies surface-bonded masonry units**

2

## D – Builds natural stone systems

**10%**

**Task D-13 Builds natural stone walls**

**D-13.01 Prepares natural stone**

2

**D-13.02 Lays natural stone**

2

**D-13.03 Damp cures walls**

2

**Task D-14 Performs mechanically-fastened natural stone cladding procedures**

**D-14.01 Prepares substrate for cladding**

3

**D-14.02 Prepares natural stone for cladding**

3

**D-14.03 Installs natural stone cladding**

3

## E – Builds chimneys and fireplaces

**10%**

**Task E-15 Builds chimneys**

**E-15.01 Builds foundation supports for chimneys**

3

**E-15.02 Lays masonry units to build chimneys**

3

**E-15.03 Installs flue lining**

3

**E-15.04 Installs related flashings**

3

**E-15.05 Installs caps**

3

**Task E-16 Builds fireplaces**

**E-16.01 Builds foundation for hearth, firebox, backup material and veneer**

3

**E-16.02 Builds hearth, firebox and backup**

3

**E-16.03 Installs damper**

3

**E-16.04 Builds smoke chamber**

3

**E-16.05 Prepares existing fireplace for insert**

3



E-16.06 Faces  
fireplaces and inserts

3

## F - Installs refractories and corrosion resistant materials

9%

Task F-17 Installs and maintains refractories

F-17.01 Prepares for installation of refractories and accessories

3

F-17.02 Prepares mortar for refractories

3

F-17.03 Removes existing refractories

3

F-17.04 Installs refractories

3

F-17.05 Repairs refractories

3

Task F-18 Installs and maintains corrosion resistant materials

F-18.01 Prepares for installation of corrosion resistant materials and accessories

3

F-18.02 Prepares mortar for corrosion resistant materials

3

F-18.03 Removes existing corrosion resistant materials

3

F-18.04 Installs corrosion resistant materials

3

F-18.05 Repairs corrosion resistant materials

3

## G - Performs restoration

11%

Task G-19 Rebuilds masonry work

G-19.01 Disassembles unit masonry

2

G-19.02 Prepares restoration work area

2

G-19.03 Reinstalls masonry and accessories

2

Task G-20 Repairs and cleans existing masonry work

G-20.01 Removes deteriorated masonry units

2, 3

G-20.02 Repoints joints

2, 3

G-20.03 Repairs masonry units

2, 3

G-20.04 Reinstalls masonry units and accessories

2, 3

G-20.05 Cleans existing masonry surfaces

2, 3

## H – Performs additional masonry

7%

<b>Task H-21 Installs glass blocks</b>	<b>H-21.01 Prepares work area for installation of glass blocks</b>  2	<b>H-21.02 Lays glass blocks</b>  2			
<b>Task H-22 Installs ornamental and sculpted masonry</b>	<b>H-22.01 Prepares for installation of ornamental and sculpted masonry units</b>  3	<b>H-22.02 Installs ornamental and sculpted masonry units</b>  3			
<b>Task H-23 Builds arches</b>	<b>H-23.01 Prepares location for installation of arch</b>  2,3	<b>H-23.02 Builds template</b>  2,3	<b>H-23.03 Places template</b>  2,3	<b>H-23.04 Installs arch masonry units</b>  2,3	<b>H-23.05 Removes template</b>  2,3

# TRAINING PROFILE CHART

This Training Profile Chart represents Saskatchewan Apprenticeship and Trade Certification Commission (SATCC) technical training at the topic level.

Level One	Transcript Code	Hours
Construction Documents 1	BRPT 124	18
Tools and Equipment	EQPT 134	24
Masonry Materials	MATE 121	12
Mortars Grouts and Adhesives	MSON 124	24
Layout and Fundamental Tasks	MSON 104	18
Building Enclosure & Substrate Preparation	MSON 105	24
General Safety & Job-site Communication	SFTY 121	18
Scaffolding	SCAF 121	12
Masonry Systems 1	MSON 106	84
Practical Final Assessment 1	ASMT 100	6
		240

Level Two	Transcript Code	Hours
Construction Documents 2	BPRT 221	30
Basic Masonry Arches	CNST 203	42
Stone Masonry	MSON 200	42
Surface Bonded Masonry	MSON 204	30
Masonry Restoration 1	MSON 205	36
Masonry Systems 2	MSON 206	54
Practical Final Assessment 2	ASMT 200	6
		240

Level Three	Transcript Code	Hours
Construction Documents 3	BPRT 320	24
Refractories and Corrosion Resistant Materials	CNST 323	30
Masonry Restoration 2	MSON 327	12
Advanced Masonry Arches	CNST 324	24
Project Planning	PROJ 301	24
Chimney and Fireplace Construction	CNST 325	60
Masonry Systems 3	MSON 330	24
Masonry Review	REV 320	30
Mentoring	MENT 300	6
Practical Final Assessment 3	ASMT 300	6
		240

# ON-THE-JOB AND IN-SCHOOL TRAINING

## CONTENT FOR THE BRICKLAYER TRADE

This chart outlines on-the-job examples for apprentices to achieve relevant work experience to prepare for the topics of technical training. Topics of technical training are provided with the associated learning outcomes.

Level One	8 weeks	240 hours
<b>Construction Documents 1</b>		<b>18 hours</b>
<ul style="list-style-type: none"><li>• identify construction documents</li><li>• interpret measurement systems and scales</li><li>• identify construction drawing language</li><li>• compare various types of drawings</li><li>• perform basic math used in construction</li></ul>		
<b>Mentors can assist the apprentice to prepare for this section of technical training by:</b>		
<ul style="list-style-type: none"><li>• <i>reviewing on-site prints and construction drawings discussing what different symbols mean</i></li><li>• <i>explaining and demonstrating measurements and scales</i></li><li>• <i>applying trade math to various tasks associated with the work</i></li><li>• <i>observing the apprentice's ability to translate blueprints to a worksite</i></li></ul>		
<b>Tools and Equipment</b>		<b>24 hours</b>
<ul style="list-style-type: none"><li>• identify measuring and layout tools</li><li>• identify masonry hand tools</li><li>• identify portable power tools used in the masonry trade</li><li>• identify tools and equipment used to mix mortar and grout</li><li>• identify tools and equipment used for moving materials</li><li>• operate tools and equipment used in the masonry trade</li><li>• describe the safe use of powder actuated tools</li></ul>		
<b>Mentors can assist the apprentice to prepare for this section of technical training by:</b>		
<ul style="list-style-type: none"><li>• <i>spending time explaining what each tool is used for and demonstrating the proper use</i></li><li>• <i>making the apprentice perform a shop inventory to learn the proper names of materials and tools</i></li><li>• <i>observing and advising the apprentice of proper uses and applied techniques when using tools and equipment</i></li><li>• <i>demonstrating the safe set up, use and storage of powder actuated tools</i></li></ul>		
<b>Masonry Materials</b>		<b>12 hours</b>
<ul style="list-style-type: none"><li>• describe clay products</li><li>• describe concrete products</li><li>• describe additional masonry products</li></ul>		
<b>Mentors can assist the apprentice to prepare for this section of technical training by:</b>		
<ul style="list-style-type: none"><li>• explaining the different types of masonry products and their proper uses</li><li>• supervising the apprentice and allowing them to make the correct choices of which products to use</li></ul>		

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## Mortars, Grouts and Adhesives

24 hours

- identify the characteristics and properties of mortar
- mix mortar to a workable state
- perform mortar joint finishes
- describe concrete design and mixing
- identify adhesives used in masonry construction
- identify building code requirements for mortar and concrete

### Mentors can assist the apprentice to prepare for this section of technical training by:

- *explaining the different types of mortars grouts and adhesives*
- *displaying the proper use, applications and procedures of mortars, grouts and adhesives*
- *showing the apprentice how to properly mix mortars and grouts*
- *observing the apprentice's ability to work with mortar grout and adhesives*

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## Layout and Fundamental Tasks

18 hours

- practice job-site setup
- perform building layout procedures
- identify masonry unit positions and bond patterns
- describe procedures for masonry wall layout
- describe cleaning and sealing new masonry surfaces

### Mentors can assist the apprentice to prepare for this section of technical training by:

- *showing the apprentice how to properly prepare and layout a jobsite*
- *displaying and observing the proper set up, storage and use of a levels*
- *identifying the different masonry unit positions and bond patterns*
- *performing wall layouts and observing the apprentice's ability to do so*
- *having the apprentice clean and seal new masonry surfaces*

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## Building Enclosure & Substrate Preparation

24 hours

- describe substrates, foundations and parging procedures
- identify masonry anchors and ties
- describe the building enclosure
- identify air barriers
- identify vapour barriers
- identify insulations

### Mentors can assist the apprentice to prepare for this section of technical training by:

- *teaching the processes of parging procedures*
- *familiarizing the apprentice with The National Building Code Regulations as it applies to the scope of work*
- *identifying the different types of masonry anchors and ties*
- *showing the apprentice the types of materials and the proper application/ installation as it applies to air barriers, vapour barriers and insulations*
- *explaining the purpose of building enclosures*
- *allowing the apprentice to make the correct decisions as it applies to procedures of the building envelope*

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## General Safety and Jobsite Communications

18 hours

- identify occupational health and safety regulations
- select personal protective equipment
- identify fall protection equipment
- identify unsafe working environments and hazard control

- practice hazard identification and control
- identify WHMIS 2015 (GHS)
- use effective communication techniques

**Mentors can assist the apprentice to prepare for this section of technical training by:**

- *attending shop safety meetings*
- *insisting on appropriate work clothes and personal protective equipment*
- *having the apprentice attend training for WHMIS*
- *taking on the responsibilities of a mentorship role and guiding the apprentice through safe work practices*

## **Scaffolding**

**12 hours**

- describe the safe use of ladders and scaffolding
- describe the erection, maintenance, and dismantling of metal access scaffolds
- identify basic rigging operations

**Mentors can assist the apprentice to prepare for this section of technical training by:**

- *displaying safe ladder practices*
- *helping the apprentice identify the different types of scaffolding*
- *showing the apprentice proper assembly, dismantling and storage of scaffolding*
- *teaching the apprentice uses of hand signals used for equipment operators*
- *raising awareness of weight distribution and the techniques of rigging and hoisting*
- *observing the apprentice's ability to work with scaffolding*

## **Masonry Systems 1**

**84 hours**

- identify masonry wall systems
- identify masonry wall elements
- identify ornamental bond patterns
- identify ornamental bond patterns
- identify building code requirements for masonry wall systems
- describe procedures for laying masonry units
- construct various wall systems

**Mentors can assist the apprentice to prepare for this section of technical training by:**

- *identifying and constructing various types of wall systems*
- *familiarizing the apprentice with the different types of wall ties and anchors*
- *building different types of columns, piers and pilasters*
- *explaining the proper uses of beams, lintels and sills as it pertains to their placement and load distributions*
- *identifying the building code requirements for masonry systems*
- *going through the proper steps of wall layout procedures*
- *exposing the apprentice to as many different types of wall systems as it applies to the trade and scope of work*
- *observing the apprentice lay out walls*
- *observing the apprentice's ability to build wall systems, columns, piers and pilasters*

## **Practical Final Assessment 1**

**6 hours**

- Construct a masonry wall using concrete masonry units and clay face brick

**Mentors can assist the apprentice to prepare for this section of technical training by:**

- *by teaching the apprentice good building practices*

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## Level Two

8 weeks

240 hours

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### Construction Documents 2

30 hours

- interpret various types of drawings
- use residential construction documents
- solve geometric problems in the construction industry
- perform material estimating procedures

**Mentors can assist the apprentice to prepare for this section of technical training by:**

- *reviewing on-site prints and construction drawings*
  - *applying the blueprints to the construction site*
  - *applying trade math to various tasks associated with the work*
  - *observing the apprentice's ability for quantitative takeoff*
- 

### Basic Masonry Arches

42 hours

- identify types of arches and their components
- calculate arch geometries
- construct a temporary arch support
- construct a rough masonry arch

**Mentors can assist the apprentice to prepare for this section of technical training by:**

- *exposing the apprentice to a wide array of arches*
  - *showing the apprentice how to perform and apply mathematics to arches*
  - *having the apprentice apply proper shoring and supports to arches*
  - *observing the apprentice's ability to building arches*
- 

### Stone Masonry

42 hours

- identify classifications of stone
- prepare stone for installation
- identify techniques for laying stone
- construct a natural full bed stone wall

**Mentors can assist the apprentice to prepare for this section of technical training by:**

- *using a wide array of stone material*
  - *allowing the apprentice to prepare the stone for application*
  - *displaying the different techniques for laying stone while following the rules of bonding and pattern practices*
  - *observing the apprentice's ability to perform natural stone building techniques and the use of proper finishings applied for curing*
- 

### Surface Bonded Masonry

30 hours

- identify surface bonded masonry
- prepare substrate for surface bonded masonry
- apply surface bonded masonry units

**Mentors can assist the apprentice to prepare for this section of technical training by:**

- *familiarizing the apprentice with weatherproofing components and backing material*
  - *demonstrating the procedures to prepare substrates for surface bonded masonry*
  - *observing the apprentice's ability to apply surface bonded masonry*
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## Masonry Restoration 1

36 hours

- analyze restoration requirements for existing buildings
- demonstrate restoration procedures

### Mentors can assist the apprentice to prepare for this section of technical training by:

- *assessing the requirements of the restoration task with the apprentice and determine an action plan*
- *setting up a safe work area*
- *allowing the apprentice to set up shoring and supports with an inspection to follow working with the apprentice at all stages of the restoration and observing their ability to perform the required tasks of demolition, salvaging materials, cleaning, restoring and finishing*

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## Masonry Systems 2

54 hours

- identify load-bearing masonry assemblies
- identify reinforced masonry principles
- construct reinforced masonry
- identify prefabricated masonry
- construct glass block masonry

### Mentors can assist the apprentice to prepare for this section of technical training by:

- *familiarizing the apprentice with load-bearing walls and the importance to the structure*
- *teaching the apprentice about installing reinforcements, lintels, braces and retaining walls.*
- *working with the apprentice to build a load-bearing wall*
- *teaching the apprentice about glass block and prefabricated masonry and how to properly install it*

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## Practical Final Assessment 2

6 hours

- construct a masonry column following project drawing specifications using concrete masonry units and clay face brick

### Mentors can assist the apprentice to prepare for this section of technical training by:

- *allowing the apprentice to independently work through masonry building tasks on the jobsite*
  - *teaching the apprentice with various types of building techniques overseeing apprentices completed work*
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## Level Three

8 Weeks

240 Hours

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### Construction Documents 3

24 hours

- interpret specifications and contracts
- interpret drawings and details for renovations
- interpret institutional, commercial and industrial type drawings

**Mentors can assist the apprentice to prepare for this section of technical training by:**

- *allowing the apprentice to identify and interpret drawings and specifications*
  - *helping the apprentice draw sketches*
  - *taking a step-by-step process when analyzing commercial and industrial drawings*
- 

### Refractories and Corrosion Resistant Materials

30 hours

- define refractory safety procedures.
- identify common refractory vessels and their use
- identify refractory materials and accessories
- Identify corrosion resistant materials and accessories
- Describe the removal and repair of refractory and corrosion resistant materials
- Describe installation procedures for refractory and corrosion resistant materials

**Mentors can assist the apprentice to prepare for this section of technical training by:**

- *explaining the uses of refractories and the safety measures that apply*
  - *selecting the proper tools to work on refractories*
  - *exposing the apprentice to different types of refractories*
  - *assuring that the material used is suited for the construction of refractories and that the apprentice is made aware of its importance*
  - *working with the removal, repair and installation of refractories.*
  - *observing the apprentices work in regard to refractories.*
- 

### Masonry Restoration 2

12 hours

- describe restoration procedures
- perform restoration procedures

**Mentors can assist the apprentice to prepare for this section of technical training by:**

- *monitoring the apprentice when deciding a course of action, allow the apprentice to decide the best methods*
  - *setting up a safe work area*
  - *allowing the apprentice to set up shoring and supports with an inspection to follow*
  - *working with the apprentice at all stages of the restoration and observing their ability to perform the required tasks of demolition, salvaging materials, cleaning, restoring and finishing*
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### Advanced Masonry Arches

24 hours

- Identify procedures for constructing gauged arches
- Review arch terminology and arch types

**Mentors can assist the apprentice to prepare for this section of technical training by:**

- *helping determine the type, location, span, rise and depth of the arch template*
  - *allowing the apprentice to properly set up shoring and support systems*
  - *observing the apprentice remove support systems, debris and shims*
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## Project Planning

24 hours

- identify quantity survey procedures for masonry construction
- identify procedures for calculating labour costs
- prepare a job cost estimate

### Mentors can assist the apprentice to prepare for this section of technical training by:

- *Observing the apprentice schedule, sequence and estimate allotted time for tasks*
  - *Observing the apprentice's ability to perform a quantity takeoff and make an accurate estimate*
- 

## Chimney and Fireplace Construction

60 hours

- describe chimneys
- identify components of masonry fireplaces
- identify building code requirements for masonry chimneys and fireplaces
- construct a masonry fireplace and chimney

### Mentors can assist the apprentice to prepare for this section of technical training by:

- *working on many different types of chimneys and fireplaces*
  - *familiarizing the apprentice with chimney layouts, reinforcing steel, proper connectors, clean-outs, flue liners and caps*
  - *referring the national building code when constructing chimneys and fireplaces*
  - *creating proper foundations to support fireplaces of all types*
  - *showing the proper procedures to building fireplaces including laying firebricks, installing ash dump, air intake and anchoring systems*
  - *installing mantels, lintels and accessories*
  - *assembling dampers and building smoke chambers observing the apprentice's ability to build fireplaces and chimneys*
- 

## Masonry Systems 3

24 hours

- describe horizontal masonry construction
- construct horizontal masonry
- describe natural stone cladding systems
- describe installation procedures for sculpted and ornamental masonry

### Mentors can assist the apprentice to prepare for this section of technical training by:

- *working on horizontal masonry construction*
  - *allowing the apprentice to construct horizontal masonry layout patterns*
  - *familiarizing the apprentice with natural stone cladding systems*
  - *installing ornamental and sculpted masonry*
  - *observing the apprentice's ability to perform these tasks*
- 

## Masonry Review

30 hours

- review common occupational skills
- review general masonry practices
- review masonry systems
- review natural stone systems
- review chimneys and fireplaces
- review refractories and corrosion resistant materials
- review restoration
- review additional masonry

**Mentors can assist the apprentice to prepare for this section of technical training by:**

- *exposing the apprentice to all aspects and essential skills of the bricklayer trade*
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**Mentoring**

**6 hours**

- describe mentoring techniques
- use mentoring techniques

**Mentors can assist the apprentice to prepare for this section of technical training by:**

- *teaching the apprentice to the best of their abilities the essential skills required of the bricklayer trade*
  - *providing the highest standard expected of a journeyman in the bricklayer trade*
  - *setting an example by being approachable, willing to teach and available for when an apprentice will need guidance*
- 

**Practical Final Assessment 3**

**6 hours**

- Construct a multi-whythe composite wall system following project drawing specifications with the use of concrete masonry units and clay face brick

**Mentors can assist the apprentice to prepare for this section of technical training by:**

- *allowing the apprentice to make educated decisions towards work projects overseeing the apprentices completed work*
- 

**Consider apprenticeship training as an investment in the future of your company and in the future of your workforce. Ultimately, skilled and certified workers increase your bottom line.**

**Get involved in the apprenticeship training system. Your commitment to training helps to maintain the integrity of the trade.**

**Do you have employees who have been working in the trade for a number of years but don't have trade certification? Contact your local apprenticeship office for details on how they might obtain the certification they need.**

**Saskatchewan Apprenticeship & Trade Certification Commission**

2140 Hamilton St Regina SK S4P 2E3

Tel: (306) 787-2444

Fax: (306) 787-5105

Toll Free: 1-877-363-0536

Website: [www.saskapprenticeship.ca](http://www.saskapprenticeship.ca)

**District Offices**

Estevan (306) 637-4930

La Ronge (306) 425-4385

Moose Jaw (306) 694-3735

North Battleford (306) 446-7409

Prince Albert (306) 953-2632

Saskatoon (306) 933-8476

Swift Current (306) 778-8945

Yorkton (306) 786-1394

**1-877-363-0536**

**[apprenticeship@gov.sk.ca](mailto:apprenticeship@gov.sk.ca)**

**[saskapprenticeship.ca](http://saskapprenticeship.ca)**

