

## **Bricklayer - Upgrading A Guide to Course Content**

*Bricklayers lay concrete blocks, brick, precut stone and other materials in the construction or repairing of structures.*

**Training Requirements:** All candidates applying for upgrading training must be eligible to challenge the Interprovincial journeyperson examination.

This program is designed to prepare individuals to challenge the Bricklayer Interprovincial journeyperson examination.

The information contained in this pamphlet serves as a guide for employers and apprentices.

The pamphlet briefly summarizes the training delivered in the upgrading program.

In order to prepare bricklayers for journeyperson certification, the Bricklayer Curriculum and Examination Development Board, in co-operation with Saskatchewan Polytechnic, has developed an upgrading program. The content of this program is outlined in this pamphlet.

Interested candidates must contact the Saskatchewan Apprenticeship and Trade Certification Commission, not Saskatchewan Polytechnic, when applying for this program. A delivery of this program is contingent on having enough eligible candidates for a full intake and will be scheduled accordingly.

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

### **Performing Related Tasks and Planning Work Activities**

- mathematics: estimating materials, basic math, metric system
- blueprint reading: commercial blueprints and specifications, drafting and sketching
- tools and equipment: proper use and care, including measuring tools.
- site orientation and preparation
- powder actuated tools
- scaffolding: Primary Access Training for Tube and Clamp Scaffolding course

### **Building Masonry Foundations and Walls**

- masonry materials: properties, characteristics, sizes and shapes
- mortars: properties and joint types
- non load bearing walls: composition, building codes
- load bearing walls: bonding systems, masonry units, mortars, reinforcement
- cavity walls
- reinforced masonry including piers, pilasters, bond beams, lintels, control joints, air/vapour barriers

### **Prefabricated Masonry Units**

- materials
- fabricating and placing procedures

### **Building Masonry Chimneys, Smokestacks and Fireplaces**

- chimney classification, design and construction (commercial and residential)
- fireplace design, external and internal construction
- building code requirements

### **Constructing Masonry Arches**

- arch terminology and geometry
- arch types, design and layout procedures

### **Building Walks, Patios, Piers, Garden Walls, Planters and Other Similar Installations**

- bonds and patterns
- design and construction principles of steps, patios
- paving brick
- overlay work

### **Installing Refractory Materials**

- review of refractory systems including materials and design

### **Restoring Masonry Work**

- causes of deterioration: efflorescence, industrial pollutants, freeze-thaw cycles, structural flaws
- replacing units
- repointing joints
- installing new flashings
- recaulking and sealing

### **Performing Miscellaneous Masonry Work**

- glass block masonry
- shoring and bracing of walls
- setting tyndal stone
- cold weather masonry
- safe work practices

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