

Skills Canada National Competition

SCOPE DOCUMENT

SCOPE DOCUMENT	
Competition Year	2012
Competition location	Edmonton, AB
Trade Number	20
Trade Name	Bricklaying
Level	Post-Secondary

1. INTRODUCTION

1.1 Purpose of the Challenge.

Bricklaying covers the construction of buildings and parts of buildings, brick, and/or block, artificial and natural stone walls.

1.2 Duration of contest.

12 hours

1.3 Skills and Knowledge to be tested.

The test project consists of practical work including bricks, block and/or stone laying by respecting the indications on the plan/design (for cutting and detail). The theoretical knowledge is limited to that which is necessary to carry out the practical work. Knowledge on rules, regulations and standards is not tested. The test project includes the construction of brick and block walls, or surfaces of with brick facing. For example, decorative brickwork with projections and recesses in all possible bonds, sections of walls with segmental, semi-circular, triangular, flat, gothic arches; curved walls and cavity walls.

2. CONTEST DESCRIPTION

2.1 List of documents produced and timeline for when competitors have access to the documents.

DOCUMENT	DATE OF DISTRIBUTION VIA WEBSITE
Project	March 1, 2012

2.2 Tasks that may be performed during the contest

- Practical work
- Only the metric system will be used
- The competition may be designed from the following
 - 80 to 85% brickwork (clay brick and/or concrete brick)
 - 10 to 25% block and/ or stone work

- 15 to 30% Arch set out other detail
- The appropriate technical skills are:
 - Measuring lengths
 - Calculating and marking of angles
 - Determining the layout
 - Determining the gauge
 - Cutting brickwork
 - Levelling and plumbing
 - Making corners
 - Building walls with brick, block or stone in different bonds: using stretcher or header, brick on end, brick on edge, raking; corbels, decorative bond, practical and/or aesthetics details
 - Sloping or battering walls according to the drawing and using material indicated 2.1
 - Compliance with the plans
 - Jointing pointing according to required profile
 - Cleaning
- Material
 - Bricks, face bricks, backing bricks, uniformly baked or formed, dimensionally accurate and sharp-edge, blocks or stone maximum 15 kg (30 lbs.)
 - Bounding agent: lime and cement or masonry cement (Type N)
 - Aggregate: sand grain size 0 to 3 mm max.
 - Mortar additive may be used to make mortar softer (workable)
 - The use of brick cleaning fluids or oil is not allowed
 - Brick cutting not including 90 degree to be limited do a maximum of 15% of the total numbers of bricks.
- Technical assessment. This may include:
 - Problem solving
 - Knowledge of bonding
 - Calculations
 - Drawing interpretation
 - General work health and safety

3. EQUIPMENT, MATERIAL, CLOTHING

3.1 Equipment and material provided by Skills/Compétences Canada

- Each competitor will have a working area of least 9 m². The floor surface will be even (± 5 mm and 2 m long), horizontal and have an adequate loading capacity. There will be sufficient space for delivery and storage of material.
- There will be a space of 1 m between public barrier and the competitor materials.
- Each workstation floor area will be covered by a material that is suitable to set out and construct masonry on.

- Water supply
- Electric power
- Mortar board
- Water bucket
- Block (support for mortar board)
- Straight edges 2 m
- Static electric brick cutting machines (one machine for 2 competitors, if necessary)
- Wood for template if necessary

3.2 Equipment and material provided by the competitor

- Line blocks
- Levels
- Steel jointers
- Trowel
- Slicker
- Hammer
- Square
- Chalk line
- Measuring tapes
- Brush
- Line

3.3 Required clothing (Provided by competitor)

- Appropriate clothing

4. SAFETY REQUIREMENTS

4.1 List of required personal protective equipment(PPE) provided by competitors

- | | | |
|--|---|--|
| <input checked="" type="checkbox"/> Safety Glasses | <input checked="" type="checkbox"/> CSA approved Safety shoes | <input type="checkbox"/> Latex gloves |
| <input type="checkbox"/> Safety Gloves | <input type="checkbox"/> Welding helmet | <input type="checkbox"/> Dust Mask |
| <input checked="" type="checkbox"/> Hard Hat | <input type="checkbox"/> Welding gloves | <input type="checkbox"/> Leather gloves |
| <input checked="" type="checkbox"/> Hearing protection | <input type="checkbox"/> Respiratory protection | <input type="checkbox"/> No PPE required |

4.2 List of required personal protective equipment(PPE) provided by Skills/Compétences Canada (SCC)

- No additional PPE will be supplied by SCC

5. ASSESSMENT

5.1 Point breakdown

POINT BREAKDOWN		/1000
Objective	Dimensions	200
	Levelling	120
	Plumb	170
	Alignment	100
	Angles	50
	Detail	160
Subjective	Health and Safety	50
	Joint Uniformity and finishing	100
	Overall appearance and cleanliness	50

6. ADDITIONAL INFORMATION

6.1 Consecutive translation

If consecutive translation is required on site, the Skills/Compétences Canada Provincial/Territorial offices must advise Skills/Compétences Canada National Secretariat a minimum of 1 month prior to the competition or this service might not be guaranteed.

6.2 Tie (No ties are allowed)

In the event that two competitors are tied for a medal (gold, silver or bronze), the competitor who completed his or her project first shall be declared the winner. The chair of the NTC shall act as timekeeper.

6.3 Competition rules

Please refer to the competition rules for all general SCNC information.

7. NATIONAL TECHNICAL COMMITTEE MEMBERS

Region	Name	Email address
Pacific Region	Shane Frahm	kcshane@telus.net
Western Region	Brian Gebhart	bgebhardt@rrc.mb.ca
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