



2011 Nova Scotia Skills Competition

Official Competition Name: **Bricklaying**
 Competition Level: **Post Secondary**
 Competition Location: **NSCC Dartmouth Gate Site**
 Competition Date: **April 8, 2011**

Purpose of Challenge:

- a) Bricklaying covers the construction of buildings and parts of buildings using brick and cement block.
- b) The test project consists of practical knowledge and work including layout, bricklaying, block laying and drawing (for cutting)
- c) The theoretical knowledge is limited to that which is necessary to carry out the practical work of this project. Knowledge of rules, regulations, and standards is not tested.
- d) The test project includes the construction of brick and block walls, or surfaces with brick facing ie: walls with outside and inside corners, bond, and changes from one type of material to another.

Number of Stations:

Specific spots allotted to Campuses and Apprentices:

School/Campus/Apprentice	Number of available spots
Akerley Campus	
Annapolis Valley Campus	
Burridge Campus	
Cumberland Campus	
Halifax Campus	
Institute of Technology Campus	
Kingstec Campus	
Lunenburg Campus	
Marconi Campus	
Pictou Campus	
Shelburne Campus	
Strait Area Campus	
Truro Campus	
Apprentices	
Universities	
Private Career Colleges	

Skills and knowledge to be tested:

- a) Practical work.
- b) The project is designed of the following: 40% block work and 60% brickwork

c) The appropriate skills are :

- Measuring lengths,
- Calculating angles,
- Determining layout,
- Determining the gauge,
- Cutting the brickwork,
- Leveling and plumbing,
- Making corners,
- Compliance with the plans,
- Jointing,
- Cleaning,

d) Material

- Clay face bricks of a standard size
- 200 x 200 x 400 nominal size concrete block
- Masonry cement
- Aggregate : sand with a grain size of maximum size of 6mm
- The use of oils or cleaning chemicals is not allowed

e) Technical assessment. This will be limited to the practical knowledge needed to complete the project and will include:

- Problem solving
- Knowledge of bonding
- Calculations
- Drawing interpretation
- General safety

Prerequisites:

Equipment, tools, supplies, clothing:

- a) Each competitor will have adequate work space and separation from other competitor to complete the project
- b) There will be adequate water supply and electricity and lighting made available
- c) Each competitor will have, for his use:
- Mortar board
 - Water bucket
 - Support for mortar board
- d) each contestant must bring his own tool bag containing but not limited to the following tools:
- line blocks
 - line
 - levels
 - steel jointers
 - trowel
 - slicker
 - hammer
 - chalk line
 - measuring tapes

- brush
- steel square
- personal safety equipment (hard hat, steel toed work boots, ear plugs, safety glasses)

note:

1. Safety boots and hard hats are mandatory.
2. Contestants must wear safety goggles and hearing protection when cutting.
3. Only metric system will be used

Point Breakdown:

The following are the total points that can be assessed:

Marks/Points

- A. Dimensions; O 200
- B. Leveling; O 125
- C. Plumb; O 175
- D. Alignments 125
- E. Angles; O 50
- F. Detail; O 125
- G. Health and safety; S 50
- H. Joint uniformity and finishing; S/O 100
- I. Overall appearance, cleanliness; S/O 50

Evaluation

O= objective

S= subjective

Technical Committee Member and Judges:

PTC Co-Chair, Leigh Wright
PTC Co-Chair Leif Langille