

CONTEST DESCRIPTION
DESCRIPTION DE CONCOURS

BRICK MASONRY BRIQUETAGE-MAÇONNERIE

POST-SECONDARY
NIVEAU POSTSECONDAIRE

CONTINUOUS LEARNING



FORMATION CONTINUE

DIGITAL



COMPÉTENCES NUMÉRIQUES

DOCUMENT USE



UTILISATION DE DOCUMENTS

NUMERACY



CALCUL

ORAL COMMUNICATION



COMMUNICATION ORALE

READING TEXT



LECTURE

WORKING WITH OTHERS



TRAVAIL D'ÉQUIPE

WRITING



RÉDACTION

THINKING



CAPACITÉ DE RAISONNEMENT

1. The Importance of Essential Skills for Careers in the Skilled Trades and Technology

SCC is currently working with Employment and Social Development Canada (ESDC) in order to bring awareness to the importance of Essential Skills that are absolutely crucial for success in the workforce. Part of this ongoing initiative requires the integration and identification of Essential Skills in contest descriptions, projects, and project documents. The next phase and very important aspect of our Essential Skills (ES) initiative is to provide an ES report card to each competitor at the Skills Canada National Competition. The purpose of the ES report card is to inform the competitor about their current level of essential skills based on their competition scores. With this knowledge, the competitor will be made aware which essential skill may require improvement. This will be piloted in a number of areas for 2016 with full implementation in the 2017 Skills Canada National Competition.

This is part of an ongoing initiative that requires the integration and identification of Essential Skills in contest descriptions, projects, and project documents. Essential skills are used in nearly every job and at different levels of complexity. They provide the foundation for learning all other skills and enable people to evolve with their jobs and adapt to workplace change. Good Essential Skills means you will understand and remember concepts introduced in technical training. The level of Essential Skills required for most trades is as high or higher than it is for many office jobs. The following 9 skills have been identified and validated as key essential skills for the workplace in the legend below:

¹Numeracy, ²Oral Communication, ³Working with Others, ⁴Continuous Learning, ⁵Reading Text, ⁶Writing, ⁷Thinking, ⁸Document Use, ⁹Digital

These essential skills have been identified with in section 2.3 and/or 3.2 of your Contest Description. The top three Essential Skills for your area of competition have been identified on your Project and all other supporting project documents.

2. CONEST INTRODUCTION

2.1 Purpose of the Challenge.

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

2.2 Duration of contest.

12 hours

2.3 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.

3. CONEST DESCRIPTION

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

DOCUMENT	DATE OF DISTRIBUTION VIA WEBSITE
Test Project	March, 2016

3.2 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 lengths¹
 - Calculating and marking of angles¹
 - Determining the layout⁷
 - Determining the gauge⁷
 - 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 details⁷
 - Sloping or battering walls according to the drawing and using material indicated 2.1
 - Compliance with the plans⁸
 - 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.) ¹
 - 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. ¹

- Technical assessment. This may include:
 - Problem solving⁷
 - Knowledge of bonding
 - Calculations¹
 - Drawing interpretation⁸
 - General work health and safety

*Essential Skills – ¹Numeracy, ⁷Thinking (Problem Solving, Job Task Planning and Organizing),
⁸Document Use*

4. EQUIPMENT, MATERIAL, CLOTHING

4.1 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

4.2 Equipment and material provided by the competitor

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

4.3 Required clothing (Provided by competitor)

- Appropriate clothing

Note: Your contest area for SCNC 2016 will be hosted outside under tents. Come prepared for any weather conditions and dress accordingly.

5. SAFETY REQUIREMENTS

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

- Safety Glasses
- Hard Hat
- Hearing protection
- CSA approved Safety shoes

6. ASSESSMENT

6.1 Point breakdown

POINT BREAKDOWN		/100
Objective	Dimensions	20
	Levelling	12
	Plumb	17
	Alignment	10
	Angles	05
	Detail	16
Subjective	Health and Safety	05
	Joint Uniformity and finishing	10
	Overall appearance and cleanliness	05

7. ADDITIONAL INFORMATION

7.1 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.

7.2 Tie (No ties are allowed)

In the event of a tie, the competitor with the highest score for Plum (vertical alignment) criteria will be declared the winner.

7.3 Test Project change at the Competition

Where the Test Project has been circulated to Competitors in advance, NTC shall change a maximum of 30% of the work content. Please refer to the Competition Rules.

7.4 Competition rules

Please refer to the competition rules of the Skills Canada National Competition.

8. NATIONAL TECHNICAL COMMITTEE MEMBERS

Member Organisation	Name	Email address
Alberta	Richard Kokotilo	
Manitoba	Brian Gebhardt	
Ontario	Tim Maxson	
Québec	Daniel Dawson	
New Brunswick - Chair	Dwayne Giberson	Dwayne.giberson@nbcc.ca
Saskatchewan	Brian Adams	