

51 – Industrial Mechanic/ Millwright / Post-Secondary

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. This is part of a new initiative that requires the integration and identification of Essential Skills in contest area descriptions and competition scopes. 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 as 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: -

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

These essential skills have been identified in section 2.3 and/or 3.2 of your Contest Description.

2. CONTEST INTRODUCTION

2.1 Purpose of the Challenge.

To test the knowledge and skills of each competitor in the areas of: blueprint reading, layout, hand tools, machine assembly and alignment.

2.2 Duration of contest.

7 hours

2.3 Skills and Knowledge to be tested.

Mark breakdown: 100% practical.

3. CONTEST DESCRIPTION

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

DOCUMENT	DATE OF DISTRIBUTION VIA WEBSITE
No other documents will be released prior to the competition	31 December 2014

3.2 Tasks that will be performed during the contest

- Perform hand tool operations^{7, 1}
- Read and interpret blueprints, reassemble a reduction gearbox, install anti friction bearings and align mechanical components to required tolerances^{7, 1, 5, 8,}
- Knowledge of Imperial and Metric measurement and ANSI symbols required¹
- All competitors will be required to sign a declaration stating they have not written a certificate of qualification examination, or hold journey person status in a related trade.

Essential Skills – ¹Numeracy, ⁷Thinking (Critical), ⁸Document Use, ⁵Reading Text, ⁶Writing,

4. EQUIPMENT, MATERIAL, CLOTHING

4.1 Equipment and material provided by Skills/Compétences Canada

- All required components, tools and equipment.
- “Shaft-Align Laser” will be supplied and can be used for the alignment portion of the project

4.2 Equipment and material provided by the competitor

- No tools or equipment permitted

4.3 Required clothing (Provided by competitor)

- Dressed in an appropriate manner with no visible Commercial Logos (Provincial attire is appropriate)

5. SAFETY REQUIREMENTS

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

- Safety Glasses (**clear lens**)
- CSA approved Safety shoes/boots

Note: Competitors will not be allowed to compete if the above items are not brought and used

6. ASSESSMENT

6.1 Point breakdown

POINT BREAKDOWN	/100
Read and interpret blueprints, reassemble a reduction gearbox, install anti friction bearings	60
Align mechanical components to required tolerances	40

ADDITIONAL INFORMATION

6.2 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.

6.3 Tie (No ties are allowed)

In the event of a tie, the competitor with the highest score in reassembly of the reduction gearbox criteria will be declared the winner.

6.4 Competition rules

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

7. PROVINCIAL TECHNICAL COMMITTEE MEMBERS

Region	Name	Email address
Pacific Region(NTC)	Rob Braun	Rbraun3@bcit.ca
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