

Skills Canada National Competition

SCOPE DOCUMENT

SCOPE DOCUMENT	
Competition Year	2012
Competition location	Edmonton, AB
Trade Number	51
Trade Name	Industrial Mechanic Millwright
Level	Post-Secondary

1. INTRODUCTION

1.1 Purpose of the Challenge.

To test the knowledge and skills of each competitor in the areas of: pneumatics, metal layout, machining, welding and fabrication, the identification, assembly and alignment of power transmission components

1.2 Duration of contest.

12 hours

1.3 Skills and Knowledge to be tested.

15% of the competition will be Theory and 85% is Practical

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
No other documents will be released prior to the competition	

2.2 Tasks that may be performed during the contest

- Interpret, assemble, operate and adjust a peumatic circuit.
- Interpret, measure, sketch and machine a component on a Lathe.
- Interpret, assemble and align mechanical power transmission components to required tolerances.
- Interpret a welding blueprint and fabricate the component using a plasma cutter and MIG welder.

- Knowledge of Imperial and Metric measurement and ANSI symbols required.
- All competitors will be required to sign a declaration stating they have not written a certificate of qualification examination, or hold journeyman status in a related trade.

3. EQUIPMENT, MATERIAL, CLOTHING

3.1 Equipment and material provided by Skills/Compétences Canada

- All required components, tools and equipment.

3.2 Equipment and material provided by the competitor

- No tools or equipment permitted

3.3 Required clothing (Provided by competitor)

- Dressed in an appropriate manner

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 checked="" type="checkbox"/> Welding Shield/Helmet |
| <input type="checkbox"/> Safety Gloves | <input type="checkbox"/> Welding helmet | <input type="checkbox"/> Dust Mask |
| <input type="checkbox"/> Hard Hat | <input checked="" type="checkbox"/> Welding Gloves | <input type="checkbox"/> Leather gloves |
| <input type="checkbox"/> Hearing protection | <input type="checkbox"/> Respiratory protection | <input type="checkbox"/> No PPE required |

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

Competitors must have clear lens safety glasses.

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
Interpret a blueprint and fabricate the component using a plasma cutter and MIG welder.	125
Interpret, measure, sketch and machine a component on a Lathe.	125
Interpret, assemble, operate and adjust a pneumatic circuit.	250
Interpret, assemble and align mechanical power transmission components to required tolerances.	500

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 case of a tie in this competition, the competitors will write a 25 question theory test.

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	Gord Balfour	gbalfour@millwrights2736.com
Western Region	Dan Zvanovec	danzva@wtc.mb.ca
Ontario	Craig Brazil	craig.brazil@sheridanc.on.ca
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Atlantic Region	David MacMillan	david.macmillan@nsc.ca
Shop Master	Roger Tokay	robert@nait.ca