

12TH PROVINCIAL SKILLS COMPETITION

2009 SKILLS CANADA NEWFOUNDLAND AND LABRADOR



51

INDUSTRIAL MECHANIC MILLWRIGHT

Scope Document

Post Secondary

Friday, April 3rd, Carpenters Millwright College – Paradise

Note : One competitor per registered school

Duration of Contest: 4-6 hours

PURPOSE OF THE CHALLENGE

To test the knowledge and skills of each competitor in the areas of: hydraulics, shaft alignment, alignment of power transmission components and the assembly of spherical roller bearings.

SKILLS AND KNOWLEDGE TO BE TESTED

(Theory 15% / Practical 85%)

- Interpret, draw assemble and operate a hydraulic circuit
- Perform Rim and Face shaft alignment
- Interpret, assemble and align mechanical power transmission systems
- Interpret and install spherical roller bearings

Note: Knowledge of Imperial and Metric measurement and ANSI symbols required

CLOTHING REQUIREMENTS

Competitors are expected to be dressed in an appropriate manner with their own safety glasses, work boots and coveralls or shop coat. (Without company or school identification)

EQUIPMENT & MATERIALS

Provided by the Competitor:

- Personal Protective equipment only, no tools or equipment.

Provided by the Committee:

- All required components, tools and equipment.

POINT BREAKDOWN (1000 POINTS)

- | | |
|--|------------|
| • Interpret, draw and assemble hydraulic circuit | 250 points |
| • Perform Rim and Face Shaft alignment | 250 points |
| • Interpret assemble and align power transmission components | 250 points |
| • Interpret and install spherical roller bearings | 250 points |

12TH PROVINCIAL SKILLS COMPETITION

2009 SKILLS CANADA NEWFOUNDLAND AND LABRADOR

Note: In case of a tie in this competition, the competitors will write a 25 question theory test for an additional 25 points.

Project information will not be available beforehand.

TECHNICAL COMMITTEE

Neil Evely (Chair)
Darrell Melvin

Carpenters Millwrights College
Carpenters Millwrights College

n_evely@live.com
darrellm@nlrc.ca