

2010 Provincial Skills Competition

Scope Document

Edmonton Event Centre

May 12 & 13, 2010

EVENT: Industrial Mechanic/Millwright	LEVEL: Post Secondary
START TIME MAY 13 & 14: 8:00 a.m.	LOCATION: Hall C, Edmonton Expo Centre
THEORY EXAM: YES	DURATION: 12 hours (2 days)

WORLDSKILLS TRADE #: 51

GENERAL DESCRIPTION

Purpose of the Challenge:

To test the knowledge and skills of each competitor in the areas of hydraulics, power transmission systems, basis machining and metal layout operations.

Event Information:

****Gold medal winners will advance to the Canadian Skills Competition****

All competitors must provide proof that they are currently registered as Millwright Apprentices and must attend the Registration & Orientation sessions.

Skills and Knowledge to be Tested: (Theory 15% / Practical 85%)

- General theory and troubleshooting of hydraulic and/or pneumatic circuits
- Use of tools to assemble a mechanical power transmission component
- General theoretical and practical knowledge of engine lathes
- Coupling alignment using dial indicators, feeler gauges, etc
- Mechanical layout and assembly using hand and power tools

Note:

Knowledge of imperial 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: Safety Footwear and Shop Coats

Provided by the Committee: All required components, equipment and tooling, safety glasses, hearing protection



JUDGING: Points Breakdown/500 Total

- Interpret and hook up a hydraulic/pneumatic circuit
- Disassemble and assemble mechanical power transmission components.
- Align coupling assembly using feeler gauges and or dial indicators
- Interpret and machine project on engine lathe
- Layout and fabricate bolting project

Each of the above tasks will be scored out of 100 points competitor with the highest total wins

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

Project information will not be available beforehand.

COMMITTEE MEMBERS:

Roger Tokay – Chair
Dave Cutler
Brian Dort
Steve Smith
Ron Beattie
Dino Martucci
Jim Bacon
Paul Newman
Mike McKinney
Ken Lee