

Attention Competitors

**At the 2010 Provincial Skills Competition
Safety is # 1**

**Each Event Area Will Have Safety Equipment
and Requirements That Competitors Must
Adhere To**

Important Must Read!!!!

**Competitors Must Meet All Safety Requirements
to Compete At the Provincial Skills Competition**

**Please Consult the Scope Document to Determine
the Safety Requirements for Your Area**

**It Is Recommended That Competitors Check the
Scope Document to Ensure You Meet All Safety
Requirements**

**Scope Documents May Be Updated Until January
8th, 2010**

2010 Provincial Skills Competition

Scope Document

EVENT: PRECISION MACHINING	LEVEL: SECONDARY
START TIME: 9:00AM, FRIDAY APRIL 16, 2010	LOCATION: CARLTON COMPREHENSIVE HIGH SCHOOL ROOM G109
INTERNATIONAL TRADE #: 03	DURATION: 5 HRS.

PURPOSE OF THE CHALLENGE:

Assess the contestant's precision machining skills and trade knowledge through practical testing.

SKILLS AND KNOWLEDGE TO BE TESTED:

The contest will occur on one day. On the day of competition there will be 5 hours of practical machining. The practical section of the contest involves machining a project using a conventional engine lathe and drill press.

Practical Skills and Knowledge May Be Based On:

Conventional Engine Lathe

- External turning/threading/knurling
- Taper turning (external/internal)
- Four-jaw chuck work
- Three jaw chuck work
- Applied metrology
- Assembly of parts
- Tapping
- Drilling
- Boring

THEORY EXAM:

NO

EQUIPMENT, TOOLS, SUPPLIES, CLOTHING:

Supplied by Committee:

The following will be supplied to each contestant:

- Appropriate measuring tools for the lathe and milling machine project
- Appropriate lathe and milling machine cutting tools and holders
- Hand tools

Note: The contestants may be required to share some of the supplied tools and equipment.

Project Materials:

- Mild steel/alloy steel

Note: Each contestant will be supplied with material to complete the project. If a second blank work piece is required, the contestant will lose 150 points.

Supplied by Competitor:

Contestants may bring the following optional items:

- Measuring tools – limited to internal/external micrometers, calipers, rules, scribes
- Machinery handbook, ready reference

CLOTHING REQUIREMENTS:**SAFETY REQUIREMENTS*****Competitor Must Supply:***

- CSA approved footwear
- CSA approved glasses
- Competitors will be required to wear a shop coat or equivalent

NOTE: competitors will not be allowed into the competition area without the required safety equipment.

JUDGING CRITERIA:

Points Breakdown/1000 Total	Turning
• Project completion	50
• Compliance with occupational health and safety regulations	50
• Compliance with dimensions, tolerances and fits as specified in plans	750
• Compliance with appropriate surface finish and deburring	<u>150</u>
TOTAL	1000

ADDITIONAL NOTES: ORIENTATION WILL TAKE PLACE AT 8:30AM FRIDAY, APRIL 16TH, 2010.

COMMITTEE MEMBERS:

Trevor Rutz Carlton Comprehensive High School 922-3115