

## **Attention Competitors**

**At the 2008 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  
11<sup>th</sup>, 2008**

# 2008 Provincial Skills Competition

## Scope Document

<b>EVENT:</b> PRECISION MACHINING	<b>LEVEL:</b> SECONDARY
<b>START TIME:</b> 9:00AM, FRIDAY MARCH 14TH	<b>LOCATION:</b> SIAST KELSEY CAMPUS Room S106
<b>INTERNATIONAL TRADE #:</b> 03	<b>DURATION:</b> 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.

**Practical Skills and Knowledge May Be Based On:**

Conventional Engine Lathe

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

**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:**

<b>Points Breakdown/1000 Total</b>	<b>Turning</b>
• 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>
<b>TOTAL</b>	<b>1000</b>

**ADDITIONAL NOTES: ORIENTATION WILL TAKE PLACE AT 8:30AM FRIDAY, MARCH 14<sup>TH</sup> AT SIAST KELSEY CAMPUS ROOM S106.**

**COMMITTEE MEMBERS:**

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