

Attention Competitors

**At the 2012 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 February 24, 2012

2012 Provincial Skills Competition

Scope Document

EVENT: PRECISION MACHINING	LEVEL: SECONDARY
START TIME: 8:00 AM, Friday, March 16	LOCATION: SIAST Wascana Campus Rm 164 Machine Shop
INTERNATIONAL TRADE #: 03	DURATION: 6 HRS.

PURPOSE OF THE CHALLENGE:

To evaluate the contestant's precision machining skills and trade knowledge through a practical machining challenge.

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 manual engine lathe.

Practical Skills and Knowledge May Be Based On:

Manual Engine Lathe

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

THEORY EXAM:

There will be NO theory exam.

EQUIPMENT, TOOLS, SUPPLIES, CLOTHING:

Supplied by Committee:

The following will be supplied to each contestant:

- Appropriate measuring tools for the lathe project
- Appropriate lathe 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

Note: Each contestant will be supplied with material to complete the project. If a second blank work piece is required, the contestant will lose 50 points.

Supplied by Competitor:

Contestants may bring the following optional items:

- Measuring tools – limited to internal/external micrometers, vernier 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
- Long hair must be tied back or netted

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

JUDGING CRITERIA:

Points Breakdown/100 Total	Turning
• Compliance with occupational health and safety regulations	10
• Compliance with dimensions, tolerances and fits as specified in blueprint	75
• Proper use of tools and equipment	15
TOTAL	100

ADDITIONAL NOTES: ORIENTATION WILL TAKE PLACE AT 8:00AM FRIDAY, MARCH 16, 2012.

COMMITTEE MEMBERS:

Grant Paul SIAST Wascana Campus Machine Shop 775-7748