

Attention Competitors

**At the 2005 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
15th**

2005 Provincial Skills Competition

Scope Document

EVENT: PRECISION MACHINING	LEVEL: SECONDARY
START TIME: 8:00 AM, APRIL 8, 2005	LOCATION: A.E. PEACOCK COLLEGIATE
INTERNATIONAL TRADE#: 03	DURATION: 8 HRS

SAFETY REQUIREMENTS: Competitors are required to follow all industry safety standards during the competition.

PURPOSE OF THE CHALLENGE:

To test hands on and academic skills in the Machine Shop.

SKILLS AND KNOWLEDGE TO BE TESTED:

We are testing knowledge of Lathe operations, use of measuring tools and blueprint reading.

Lathe Operations: Facing, center drilling, using dial indicator to center round stock, stepturning, reaming, boring and compound rest taper turning.

EQUIPMENT, TOOLS, SUPPLIES, CLOTHING:

Supplied by Committee:

- | | |
|------------------------------|-------------------------|
| ➤ Material – 1060 steel | Standard modern lathe |
| ➤ 1 – 1 inch Ø x 10.125 inch | 4 Jaw Chuck <u>only</u> |
| ➤ 1 – 2 inch Ø x 3.125 inch | cutting oil |

Supplied by Competitor:

- | | |
|--|---|
| ➤ 5/16 inch square High Speed tool | Drill chuck to # 3 Morse Taper |
| ➤ Bits- 1 turning tool, 1 facing tool | # 3 center drill |
| ➤ 61/64 Ø drill bit or <u>share mine</u> | Bore bar attachment to fit compound rest |
| ➤ 55/64 Ø drill bit or <u>share mine</u> | T slot <u>or</u> small bore bar that fits 5/16 square |
| ➤ 7/8 Ø ,machine reamer or <u>share mine</u> | Tool holder |
| ➤ Vernier Caliper (no dial or digital) | Dial indicator with magnetic base |
| ➤ Telescope gauge | |

CLOTHING REQUIREMENTS:

Competitor Must Provide:

Competitor must provide safety glasses and a shop coat. Long hair must be tied back.

JUDGING CRITERIA:

9 dimensions and 1 appearance = 10 total

± .001 Tolerance on Ø

± 1/64 on Linear

COMMITTEE MEMBERS:

Larry Stevens,	SIAST - Kelsey Campus, Saskatoon
Kevin Reiter	Estevan Comprehensive High School