

Attention Competitors

**At the 2009 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, 2009

2009 Provincial Skills Competition

Scope Document

EVENT: MECHANICAL CAD	LEVEL: SECONDARY
START TIME: 9:00 a.m. APRIL 3 rd , 2009	LOCATION: SIAST Wascana Campus
INTERNATIONAL TRADE #: 05	DURATION: 6 HRS.

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

PURPOSE OF THE CHALLENGE:

This competition is intended to evaluate each contestant's skills and knowledge in Computer Assisted Drafting, specifically in creating detail and assembly drawings. The outstanding students in this field will then be recognized.

SKILLS AND KNOWLEDGE TO BE TESTED:

1. Understand and use all features for producing a scaled CAD drawing, utilizing isometric and orthographic commands.
2. Understand and use written instructions for all drawing scales, standards and design criteria.
3. Correct use of CAD dimensioning tools and dimensioning practices.
4. Ability to draw using orthographic and auxiliary projection.
5. Correct use of drafting and design standards.
6. Ability to sketch.
7. Ability to use measuring tools.

SPECIFIC REQUIREMENTS:

The competitor will be given a project where they should be prepared to measure, sketch, provide a presentation view, working drawings with dimensions and notes suitable for assembly and manufacture. From a given assembly drawing extract a part(s) and fully dimension with notes symbols and geometric tolerances.

Note ** For the National competition students will also be required to make and assembly from detail drawing and Parametric modeling.

EQUIPMENT, TOOLS, SUPPLIES, CLOTHING:***Supplied by Committee:*****Measuring Tools:**

- Venire caliper,
- ruler,
- protractor

Hardware:

- Compatible Pentium type microcomputers (IBM compatible).

Software:

- AutoCAD 2006
- Autodesk Inventor v10

Note: Software and hardware listed is not mandatory, only suggested as what is used at the national level. Other software or hardware must be approved by the Committee.

Supplied by Competitor:

- Calculator
- Scale
- Notepad
- Pen / Pencil

CLOTHING REQUIREMENTS:

- Neat and tidy

JUDGING CRITERIA:

- Sketching 20%
- 2D Drawing with Dimensions 40%
- 3D Model/isometric 30%
- Subjective Ranking 10%

COMMITTEE MEMBERS:

- Wayne Grywacheski
- Lonny Holmes
- Arnold Neufeld