

## **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

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<b>EVENT:</b> MECHANICAL CAD	<b>LEVEL:</b> SECONDARY
<b>START TIME:</b> 9:00 AM APRIL 8 <sup>TH</sup> , 2005	<b>LOCATION:</b> SIAST PALLISER CAMPUS RM. 4.125
<b>INTERNATIONAL TRADE #:</b> 05	<b>DURATION:</b> 5.5 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.
  - Proper use of basic computer assisted drafting commands.
  - Setting commands including units, styles, levels/layers and dimension variables.
  - Ability to create and use cells/blocks
  - Ability to plot to a specified scale
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.

### **EQUIPMENT, TOOLS, SUPPLIES, CLOTHING:**

*Supplied by Committee :*

#### **Hardware:**

Compatible Pentium type microcomputers (IBM compatible).

1-3.5" High Density Diskette

***Software:***

AutoCAD 2005 & Autodesk Inventor

**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 by March 15<sup>th</sup>, 2005.**

***Supplied by Competitor:***

- Calculator
- Scale
- Notepad
- Pen / Pencil

***Competitor Must Provide:***

**CLOTHING REQUIREMENTS:**

**JUDGING CRITERIA:**

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

**COMMITTEE MEMBERS:**

Wayne Grywacheski

Lonny Holmes

Richard Marquardt