

## **Attention Competitors**

**At the 2004 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  
15th**

# 2004 Provincial Skills Competition

## Scope Document

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<b>EVENT:</b> ELECTRONICS	<b>LEVEL:</b> SECONDARY
<b>START TIME:</b> 8:00 AM. MARCH 26, 2004	<b>LOCATION:</b> SIAST WOODLAND CAMPUS
<b>INTERNATIONAL TRADE #:</b> 16	<b>DURATION:</b> 6 HRS.

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

### **PURPOSE OF THE CHALLENGE:**

To evaluate each competitor's preparation for employment and to recognize outstanding students for excellence and professionalism in the field of electronics technology.

### **SKILLS AND KNOWLEDGE TO BE TESTED:**

Each competitor will be tested in the following areas:

- Breadboard fabrication (student supplies the breadboard)-parts are re-usable. Design a breadboard assembly from schematics and test as required
- Reverse engineering –Developing a schematic from a given, included project
- De-solder, cleaning project- competitors will be given a soldered PCB. They will have to remove components and clean the board
- Schematic interpretation/design
- Written component- test format
- Fabrication project- Competitors will have to build and test a given project board. This will be judged on completeness/functionality/accuracy

### **EQUIPMENT AND MATERIALS:**

#### ***Supplied by the Committee:***

- Electronic components
- Oscilloscope
- 0-12 volt power supply
- Project kits
- Special tools (As required)
- Catalogues of parts

#### ***Supplied by the Competitor:***

- Calculator, pencils, pens, erasers
- Safety glasses – not required if prescription glasses are worn
- Breadboard
- Soldering equipment – soldering iron, solder, flux, flux cleaning solvent (Optional), solder wick, circuit board holder or vise
- Tools – Wire strippers – pliers, screw drivers, other

**CLOTHING REQUIREMENTS:**

***Competitor Must Provide:***

Competitors are to be dressed in a clean and appropriate manner.

**COMMITTEE MEMBERS:**

Brad Amy                      L.P.Miller Comprehensive School, Nipawin