

## **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> ELECTRICAL WIRING	<b>LEVEL:</b> SECONDARY
<b>START TIME:</b> 8:00 AM, March 26, 2004	<b>LOCATION:</b> CARLTON HIGH SCHOOL RM. G107
<b>INTERNATIONAL TRADE #:</b> 18	<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 competitor’s abilities and techniques to perform specific electrical wiring tasks.

### **WRITTEN TEST:**

There may be a short written examination. For this reason, a calculator may be required.

### **PRACTICAL TEST:**

The competition will consist of the installation of electrical devices employing various wiring types and methods. The assigned task will require a working knowledge in any or all of the following aspects relating to electrical wiring:

1. Compliance of Occupational Health and Safety Regulations
2. Proper use of all tools, materials and equipment that are used in the installation.
3. Application and interpretation of the Saskatchewan Electrical Safety Code.
4. Installation of single and multiple point lighting switching circuits.
5. Installation of all types of outlet boxes and related equipment and devices.
6. Basic knowledge of various wiring methods (Non metallic sheathed cable, electrical metallic tubing, armoured cable, and PVC conduit) and circuits in the low voltage (31 to 600V) and the extra low voltage (less than 31V categories).
7. Trouble shooting of the installation if any problems arise.

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

*Competitor Must Provide:*

#### **CLOTHING REQUIREMENTS:**

Competitors must provide the following:

1. Steel-toed work boots.
2. Long sleeve work shirt, trousers or overalls. (Blue jeans are acceptable).
3. Prescription glasses must have side guards or safety goggles must cover them.

The following items will be provided but competitors may choose to bring their own if desired:

1. Safety glasses or safety goggles (CSA approved).
2. Hardhat (CSA approved).

**TOOLS:**

The tools listed below are required to do the assigned tasks. All other required equipment/materials will be supplied.

- Needle-nose pliers
- Claw hammer
- Multimeter
- Adjustable pump pliers
- Tool pouch/box for tools
- Robertson screw drivers (1 red, 1 green handle)
- Diagonal pliers
- Wire strippers
- Electrician's knife
- Flat-blade screw drivers (small and large)
- Linesmen pliers
- Hacksaw

**JUDGING CRITERIA:**

The competition is not a race against time, therefore there are no additional points given to competitors who finish early.

Competitors scoring will be based on the following:

- Observing applicable Occupational Health and Safety regulations.
- Installation that conforms to Canadian Electrical Code regulations.
- Ability to follow plans, drawings and specifications.
- Installation techniques
- Use of materials and supplies.
- Workmanship.
- Interpretation of written documentation regarding assigned tasks.
- Verification of proper circuit operation.
- General knowledge of theory and practice.

**COMMITTEE MEMBERS:**

Jim Martin  
Norm Walker  
Donavon Elliott

SIAST – Palliser Campus, Moose Jaw  
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Carlton Comprehensive High School, Prince Albert