

## **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> ELECTRICAL WIRING	<b>LEVEL:</b> POST SECONDARY
<b>START TIME:</b> 8:00 AM, APRIL 8, 2005	<b>LOCATION:</b> SIAST PALLISER CAMPUS RM. 7.106
<b>INTERNATIONAL TRADE #:</b> 18	<b>DURATION:</b> 5 HRS

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

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

The competition aims to evaluate the competitor’s abilities to perform specific tasks related to electrical wiring in the residential and commercial sectors.

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

Competitors will be expected to perform competently in all aspects of wiring installations with respect to the following:

- Perform the assigned tasks from given drawings and specifications.
- All work must conform to the current Canadian Electrical Code requirements.

The assigned tasks will require a thorough working knowledge in any or all of the following aspects relating to residential electrical wiring:

1. Safety rules and practices in the electrical construction field.
2. Proper use of all tools, materials and equipment that are used in the installation of this project.
3. The application and interpretation of the Canadian Electrical Code.
4. The installation of all types of outlet boxes and related equipment and devices.
5. Knowledge of various wiring methods (NMSC, EMT, & AC) and circuits in the low voltage (31 to 600V) and the extra low voltage (less than 31V categories).
6. Trouble shooting of the installation if any problems arise.

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

*Competitor Must Provide:*

#### **CLOTHING REQUIREMENTS:**

Competitors must provide the following:

- Steel-toed work boots or shoes.
- Safety glasses or safety goggles (**Prescription glasses must have side guards or must be covered by safety goggles**).
- Hard hat

#### **TOOLS:**

Competitor is responsible to provide the following tools:

- 1 Metric/Imperial tape measure
- 1 Needle-nose pliers

- 1 Claw hammer
- 1 Diagonal pliers
- 1 Adjustable pump pliers
- 1 Linesmen pliers
- 2 Robertson screw drivers (1 red, 1 green handle)
- 2 Flat screw drivers (small and large)
- 1 Claw hammer
- 1 Multimeter
- 1 Wire strippers
- 1 Electrician's knife
- 1 Magnetic torpedo level
- 1 Round or half round file
- 1 Hacksaw and blades
- 1 Cordless drill (assorted drill bits & screwdriver bits)
- 1 Cable stripper
- 1 Roll black tape
- 1 Current edition of the Canadian Electrician Code Part 1
- 1 Tool pouch/box for tools

Please bring only the tools listed. All other required equipment/materials will be supplied.

### **JUDGING CRITERIA:**

Competitors scoring will be based on the following:

- Observation of applicable Occupational Health and Safety regulations.
- Observation of Canadian Electrical Code regulations.
- Observation of applicable building code regulations.
- Interpretation of any written documentation regarding tasks.
- Interpretation of plans, drawings and specifications.
- Installation techniques.
- Planning and organization of work.
- Economic use of materials and supplies.
- Verification of proper operation.

### **COMMITTEE MEMBERS:**

Jim Martin	SIAST – Palliser Campus, Moose Jaw
Norm Walker	SIAST – Palliser Campus, Moose Jaw
Bill Grosskleg	Weyerhaeuser Canada, Prince Albert