

## **Attention Competitors**

**At the 2010 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 8<sup>th</sup>, 2010**

# 2010 Provincial Skills Competition

## Scope Document

|   |  |
|---|--|
| <b>EVENT:</b> ELECTRICAL WIRING                           | <b>LEVEL:</b> SECONDARY  |
| <b>START TIME:</b> 8:00a.m. APRIL 16 <sup>th</sup> , 2009 | <b>LOCATION:</b> SIAST - WOODLAND CAMPUS<br>- PRINCE ALBERT, SK<br>- ELECTRICIAN PROGRAM |
| <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 safely and to acceptable standards.

### **WRITTEN TEST:**

NO

### **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 current Saskatchewan Occupational Health and Safety Regulations including the use of personal protective equipment (PPE).
2. Proper use of all tools, materials and equipment that are used in the installation.
3. Application and interpretation of the current Canadian 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, armoured cable) and circuits in the low voltage (31 to 240V) 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 Use Appropriate Clothing and PPE.**

Competitors must provide the following:

1. Long sleeve work shirt, trousers or overalls. (Blue jeans are acceptable).
2. Side guards for prescription glasses (Prescription glasses must have side guards or must be covered by safety goggles).
3. Safety toed footwear (CSA approved).

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:**

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 (#2 - red handle, #1 - green handle)
- 2 Flat screw drivers (small and large)
- 1 Multi-meter/ voltage tester
- 1 Wire strippers
- 1 Electrician's knife
- 1 Magnetic torpedo level
- 1 Hacksaw and blades
- 1 Cordless drill (assorted drill bits & screwdriver bits)
- 1 Cable stripper
- 1 Roll black tape
- 1 Tool pouch/box for tools

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

## **JUDGING CRITERIA:**

The competition is not a race against time in as far as there are no additional points given to competitors who finish early. However, the assigned task should be fully complete within the allotted time. An incomplete job can not receive full marks.

Competitor scoring will be based on the following:

- Observing applicable current Occupational Health and Safety regulations.
- Installation that conforms to current 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      | SIAST – Palliser Campus – Electrician Program Head |
| Norm Walker     | SIAST – Palliser Campus – Instructor               |
| Doug Cooper     | SIAST – Woodland Campus – Instructor               |
| Robbin Lauinger | SIAST – Woodland Campus – Instructor               |

**ADDITIONAL NOTES: PLEASE NOTE ORIENTATION WILL TAKE PLACE at 8:00 AM APRIL 16, 2010, ½ HOUR BEFORE START TIME, AT COMPETITION SITE. COMPETITORS ALSO ARE ADVISED TO ARRIVE AT THE FACILITY 20 MINUTES EARLY IN ORDER TO SIGN IN AND GET READY TO BEGIN ORIENTATION AT 8:00 AM.**