

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 8th, 2010

2010 Provincial Skills Competition

Scope Document

EVENT: ELECTRICAL WIRING	LEVEL: POST SECONDARY
START TIME: 8:00 AM, APRIL 16, 2010	LOCATION: SIAST - WOODLAND CAMPUS – ELECTRICIAN PROGRAM–PRINCE ALBERT, SK
INTERNATIONAL TRADE #: 18	DURATION: 6 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 and safely 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 current edition 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 (including but not limited to NMSC, AC, EMT & PVC) and circuits in the low voltage (31 to 600V) and the extra low voltage (less than 31V) categories (including Data Cabling).
6. 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 (1 red, 1 green handle)
- 2 Flat screw drivers (small and large)
- 1 Multi-meter
- 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 Electrical 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:

Competitor scoring will be based on the following:

- Observation of applicable current Occupational Health and Safety regulations.
- Observation of current 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 – 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.