

## Attention Competitors

**At the 2012 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**

# 2012 Provincial Skills Competition

## Scope Document

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<b>EVENT:</b> AUTO BODY REPAIR	<b>LEVEL:</b> POST SECONDARY/SECONDARY
<b>START TIME:</b> 8:00 AM March 16,2012	<b>LOCATION:</b> SIAST Wascana Campus Room Shop A153
<b>INTERNATIONAL TRADE #:</b> 13	<b>DURATION:</b> 8.0 HRS.

### **SAFETY REQUIREMENTS:**

Competitors are required to follow all industry safety standards during the competition.

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

The competitors' skill will be tested in performing typical Auto Body Repair procedures.

### **PRE-REQUISITES:**

Section & Mig weld 20 gauge mild steel  
Repair body panels  
Measuring body dimensions  
Repair plastic body panels

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

The contest is divided into four sections:

**B Pillar Repair:** To be able to measure, cut, drill out spot welds and weld.  
Using two sections of simulated B pillars, the competitor must cut and section using two pieces according to the instructions provided.

**Panel Repair:** To be able to perform a rough out on hinge buckle using dollies and body hammers, grind area to be body filled; mix and apply body filler onto metal damaged area and sand the body filler using a board file and 40 grit up to 120 grit sand paper.

**Plastic Repair:** To be able to carry out a mounting tap tear-out repair on a urethane bumper using airless welding techniques.

**Measuring:** To be able to accurately measure vehicle body dimensions working from a vehicle spec sheet.

### **THEORY EXAM: MULTIPLE CHOICE EXAM**

### **DRESS CODE:**

Competitors must supply all individual safety equipment required to perform work in industry conditions (welding gloves, welding helmets, coveralls, safety glasses, solvent resistant gloves when working with solvent cleaners, charcoal respirator for cleaning and mixing, filters/dust mask.

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

***Supplied by Committee:***

110-volt power supply, compressed air, MIG welder unit, plastic welder, drill, random orbital sander, pistol grip grinder, die grinder, dust masks. All consumables will be supplied.

***Competitor Must Provide***

**CLOTHING REQUIREMENTS:**

Welding gloves, safety toe work boots, welding helmet, coveralls (cotton), safety glasses, charcoal respirator, and solvent resistant gloves.

**TOOLS:**

All basic hand tools required for metal repairs.

NOTE: no hand made tools.

NOTE: All tools may be subject to inspection by the Technical Committee.

**JUDGING CRITERIA:**

Point Breakdown

**ADDITIONAL NOTES: \* ORIENTATION WILL TAKE PLACE**

**March 16/2012@7:30am Room A153, Wascana Campus**

**COMMITTEE MEMBERS:**

Dale Hawkins,                      SIAST, Wascana Campus, Regina

Shane Roset                        SIAST, Wascana Campus, Regina

# SKILLS CANADA SASKATCHEWAN 2012

## AUTO BODY REPAIR

### Theory Exam:

The competitor will have (30) minutes to complete a multiple choice exam.

### B Pillar Sectioning Skills:

The Competitor will have (120) minutes to complete the project.

- All welds must be done in a vertical position.
- Join the vehicle component and the replacement component using a straight cut butt joint with an insert on the outer panel.
- The overall length of the sectioned panel must be the same as the original vehicle component (305 mm).
- Weld-through primer must be used where necessary.
- Spot welds that have been removed must be replaced with plug welds.
- Butt weld joints must be stitch welded to achieve a continuous weld.
- **Welds may not be dressed**

The Competitor will be judged on:

- Safety
- Overall length
- Straightness
- Butt weld centered
- Insert centered
- Length of insert
- Fit of insert
- Application of copper weld thru primer
- Plug weld size
- Number of plug welds onto insert
- Overall weld quality

**The Competitor will shut down equipment and clean up within the 120 minutes**

# **SKILLS CANADA SASKATCHEWAN 2012**

## **AUTO BODY REPAIR**

### **Sheet Metal Repair:**

The Competitor will have (120) minutes to repair a damaged panel. This will include the roughing out of the hinge buckle and filling low areas with body filler. The damaged panel will be finished to a point ready for priming.

The Competitor will be judged on:

- Safety
- Metal preparation skills
- Metal working skills
- Body filler application and finishing skills
- Final appearance

**The Competitor will clean up all tools, equipment and area within the 120 minutes**

# **SKILLS CANADA SASKATCHEWAN 2012**

## **AUTO BODY REPAIR**

### **Plastic Repair Skills:**

The Competitor will have (60) minutes to repair a simulated bolt hole tear out on a urethane bumper panel using airless welding techniques.

The Competitor will be judged on:

- Safety
- Cleaning of the substrate
- Preparation of the repair area
- Quality of the weld repair
- Appearance of panel after repair is completed. (based on industry standards)

**The Competitor will clean up all tools, equipment and area within the 1.0 hours.**

## **SKILLS CANADA SASKATCHEWAN 2012**

### **AUTO BODY REPAIR**

#### **Measuring Skills:**

The Competitor will have (30) minutes to measure and record the vehicle door opening and the windshield opening measurements for a vehicle. The measuring points will be acquired from a vehicle spec sheet which will be provided.

The Competitor will be judged on:

- Ability to identify the measuring points
- Ability to measure accurately using measuring equipment

**The Competitor will clean up and replace all equipment used in the 30 minutes.**

**In the event of a tie, the Competitor with the fastest recorded time in all four events will be declared the winner.**