

# Provincial Scope Document

## *AIRCRAFT MAINTENANCE (Integrated) 2011*

**Contest Length: 6 hrs**

**Check in time: 8:30 AM**

**Contest Start: 9:00 AM**

**1:00 hour Lunch Break**

**Contest Ends: 4:00 PM**

### **Purpose of the Challenge:**

- To assess the contestants' skills and knowledge in performing basic aircraft maintenance procedures.

### **Skills & Knowledge to be tested:**

*Throughout the contest, students will be evaluated in the following areas:*

#### **1. Sheet metal Corner Assembly (Elbow)**

*Contestants must demonstrate skills in the following areas:*

##### **Sheet metal Fabrication**

- Fabricate sheet metal corner (Elbow) per drawings provided.
- Fabricate parts as requires
- Pattern fasteners using charts provided.
- Install fasteners using pneumatic riveting tools.

## Equipment / Tools / Materials

Contestants to provide their own basic hand tools, CSA approved safety glasses, hearing protection, and safety footwear and calculator.

AC43.13-1B/2B

### Supplied by organization:

- Kit Fox Airplane static display (qty 1)
- Workbenches c/w vices (qty 4)
- 20 gallon portable air compressor (qty 2)
- 20 foot air hose (qty 8)
- 4 outlet air pig (qty 2)
- 3x rivet gun (qty 8)
- Bucking bar two types (qty 16, 8 of each)
- #4 snap (qty 8)
- #3 snap (qty 8)
- Center punches (qty 8)
- Cleco Pliers (qty 8)
- Cleco 1/8",3/32"(qty 200, 100 of each)
- Rivet MS 20470-AD4-3 (8 oz.)
- Rivet MS 20470-AD4-4 (8 oz.)
- Rivet MS 20470-AD3-4 (8 oz.)
- 8" x 8" aluminum sheet stock 2024-T3 .032" (qty 36)
- Foot shear (qty 2)
- Sheet metal brake (qty 2)
- Fine single cut file (qty 8)
- Spring divider (qty 8)
- Vernier caliper (qty 8)
- Precision ruler (qty 8)
- Fine point marker (qty 8)
- Masking tape 1" (2 rolls)
- #40 Drill bits (qty 10)
- #30 Drill bits (qty 10)
- 1/8 Drill bits (qty 10)
- Countersink (qty 8)
- Air drill c/w key (qty 8)
- Toggle clamp (qty 32)
- Third hand (qty 4)
- Chairs (qty 12)

### **Clothing Requirements:**

- Competitors are to be dressed in a clean and safe manner.
- No jewellery on hands or wrists.

### **Safety Requirements:**

Safety awareness/requirements will be maintained at the minimum industry standards at all times. A contestant will not be allowed to compete without the safety equipment noted on this scope document.

### **Judging Criteria:**

**Point total = 1000 points**

**Sheetmetal module is worth 1000 points.**

### **Technical Committee:**

Jonas A. de Azevedo,  
BC Technical Chair

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Richard Johnstone  
Chief Expert World Skills  
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Gary Mondoux  
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**Gold medal winners at the BC Skills Competition are eligible to compete at the Canadian Skills Competition June 1 - 4 , 2011 in Quebec – QC.**

**Skills Canada BC reserves the right to update contest information. Please check the website for changes.**