



## 28th ANNUAL SKILLS MANITOBA COMPETITION CONTEST DESCRIPTION April 9, 2026

**CONTEST NAME:** Aerospace Technology

**CONTEST NO:** 14

**LEVEL:** Post-Secondary

**CONTEST LOCATION:** Red River College - Stevenson Campus – 2280  
Saskatchewan Avenue, Winnipeg

**NOTE:**

Post-Secondary level: 6 competitors maximum

**CONTEST START TIME AND DURATION:**

Thursday, April 9, 2026

8:00 am Competition Start Time

Estimated Completion 1:00 pm

Competitors should arrive at the venue no later than 7:30 am

Orientation will commence at 7:45 am

Each skill will have a 2-hour time limit

There will be a lunch provided after the completion of both skills

**PURPOSE OF CHALLENGE:** To demonstrate the skills necessary for aircraft sheet metal work and maintenance tasks

**SKILLS AND KNOWLEDGE TO BE TESTED:**

1. Sheet Metal project
2. Electrical Wiring Interconnect Project

### POINT BREAKDOWN (1000 POINTS)

Sheet Metal Project	500 points
Electrical Wiring Interconnect	500 points
Total Points	1000

### NATIONAL COMPETITION ELIGIBILITY:

- A mark of **70% or higher** must be scored by the gold medalist to attend the National Skills Competition

### EQUIPMENT, TOOLS, MATERIALS TO BE PROVIDED BY COMMITTEE:

1 Wiring interconnect kit
Workbenches c/w vices (qty 1 per contestant)
Shop air supply and air hoses
Isopropyl alcohol (1) and rags
3x rivet gun (qty 1 per contestant)
Bucking bar two types (qty 1 each per contestant)
#4 snap (qty 1 per contestant)
#3 snap (qty 1 per contestant)
Center punches (qty 1 per contestant)
Pin punches (3/32, 1/8, qty 1 each per contestant)
Drilling blocks (wood, qty 1 per contestant)
Planking for hose hazards, as required
Cleco Pliers (qty 1 per contestant)
Clecos (3/32, 1/8, qty at least 10 each per contestant)
Rivet MS 20470-AD4-3 (4 oz.)
Rivet MS 20470 AD4-4 (4 oz.)
Rivet MS 20470 AD4-5 (4 oz.)
8" x 8" 2024-T3 aluminum sheet stock .032" (qty 8)
8" x 8" 2024-T3 aluminum sheet stock .040" (qty 8)
Pre-made mock aircraft parts for repair (qty 1 per contestant plus 2 spares)
Fine single cut file, c/w handles (qty 1 per contestant)
File card (qty 1 per contestant)
Stools (qty 1 per contestant)
Conversion charts
Vernier caliper (qty 1 per contestant)
Precision ruler (qty 1 per contestant)
Fine point marker (qty 1 per contestant)
Masking tape 1" (6 rolls)
#30 Drill bits (qty 6)
#40 Drill bits (qty 6)
1/8 Drill bits (qty 6)
1/8" rivet gauges (qty 1 per contestant)
Radius gauge
Countersink/ De-burring tool (qty 1 per contestant)
Air drill c/w key (qty 1 per contestant)
Toggle clamp (qty 4 per contestant)
All necessary wire for completing the circuit
All necessary terminals for wiring harness
Crimping tools
Lacing cord
Aviation snips or hand shears (qty 2)

	Flashlights (qty 2)
	Chairs (4) and Tables (2)
	Ear plugs or ear defenders (qty as required)
	Thread pitch gauges (2)

### **EQUIPMENT, TOOLS, MATERIALS TO BE SUPPLIED BY COMPETITOR:**

	<b>Safety glasses</b>
	<b>Safety footwear</b>
	<b>Calculator</b>
	<b>Pen, pencil</b>

### **WORKSITE SAFETY RULES / REQUIREMENTS:**

As per RRC/Stevenson safety committee requirements

### **THE IMPORTANCE OF SKILLS FOR SUCCESS IN THE SKILLED TRADES AND TECHNOLOGY;**

In response to the evolving labour market and changing skill needs, the Government of Canada has launched the new Skills for Success (former Essential Skills) model defining nine key skills needed by Canadians to participate in work, in education and training, and in modern society more broadly. SCC is currently working with Employment and Social Development Canada (ESDC) to bring awareness of the importance of these skills that are absolutely crucial for success in Trade and Technology careers. Part of this ongoing initiative requires the integration and identification of the Skills for Success in contest descriptions, projects, and project documents. The following 9 skills have been identified and validated as key skills for success for the workplace: 1.Numeracy, 2.Communication, 3.Collaboration, 4.Adaptability, 5.Reading, 6.Writing, 7.Problem Solving, 8.Creativity and Innovation, 9.Digital

### **FOR MORE INFORMATION PLEASE CONTACT:**

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