



# 2010 13<sup>th</sup> ANNUAL SKILLS MANITOBA COMPETITION CONTEST SCOPE

**CONTEST NAME:** Aircraft Maintenance

**CONTEST NO:** 91

**LEVEL:** Post Secondary

**CONTEST LOCATION:** Stevenson Aviation and Aerospace Training Centre

**NOTE:**

Post-Secondary level: 6 competitors per school.

**CONTEST START TIME AND DURATION:**

9:00 am Start

Estimated Completion 1:00 pm

**PURPOSE OF CHALLENGE:** Skills demonstration

**SKILLS AND KNOWLEDGE TO BE TESTED:**

1. Sheet Metal project
2. Magneto Timing project

**POINT BREAKDOWN (1000 POINTS)**

Sheet Metal project	250 points
Magneto Timing project	250 points
Total Points	500

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

▪ Piston engine on stand c/w ignition system, propellers. (qty 2 identical, 0-235 or similar, incl. manuals)
▪ Workbenches c/w vices (qty 2)
▪ 20 gallon portable air compressor (qty 1)
▪ 20 foot air hose (qty 2)
▪ 4 outlet air pig (qty 1)
▪ 3x rivet gun (qty 2)
▪ Bucking bar two types (qty 4, 2 of each)

▪ #4 snap (qty 2)
▪ #3 snap (qty 2)
▪ Center punches (qty 2)
▪ Pin punches (3/32, 1/8, qty2)
▪ Cape chisels (qty 2)
▪ Air Fittings (various styles)
▪ Drilling blocks (wood, qty 2)
▪ Planking for hose hazards
▪ Cleco Pliers (qty 2)
▪ Clecos (3/32, 1/8, qty 20 each)
▪ Rivet MS 20470-AD4-3 (4 oz.)
▪ Rivet MS 20470 AD4-4 (4 oz.)
▪ Rivet MS 20470 AD4-5 (4 oz.)
▪ 8" x 8" aluminum sheet stock 2024-T3 .032" (qty 12)
▪ Fine single cut file, c/w handles (qty 2)
▪ File card
▪ Stools (qty 2)
▪ Conversion charts
▪ Spring divider (qty 2)
▪ Vernier caliper (qty 2)
▪ Precision ruler (qty 2)
▪ Fine point marker (qty 2)
▪ Masking tape 1" (1 roll)
▪ #30 Drill bits (qty 3)
▪ #40 Drill bits (qty 3)
▪ 1/8 Drill bits (qty 3)
▪ Countersink/ De-burring tool (qty 2)
▪ Air drill c/w key (qty 2)
▪ Toggle clamp (qty 4)
▪ Magneto timing light (qty 2)
▪ Timing hats (qty 2)
▪ Torque Wrench 3/8 drive (qty 1, alternate 1/2" drive )
▪ 7/8" Deep socket 3/8 drive (qty 1, alternate 1/2" drive)
▪ Chairs (qty 4)
▪ Tables (2)
▪ Lockbox

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

• basic hand tools
• safety glasses
• hearing protection
• safety footwear
• calculator
• Pen, pencil

**WORKSITE SAFETY RULES / REQUIREMENTS:**

As per RRC/Stevenson safety committee requirements

**FOR MORE INFORMATION PLEASE CONTACT:**

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