



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

**CONTEST NAME:** Mechanical CADD

**CONTEST NO:** 05

**LEVEL:**

Secondary

Post Secondary

**CONTEST LOCATION:** Red River College – Notre Dame Campus

**NOTE:**

Secondary level: 2 competitors per school.

Post-Secondary level: 3 competitors per school.

**CONTEST START TIME AND DURATION:** 3 hours, starting immediately after opening ceremonies (9 AM)

**PURPOSE OF CHALLENGE:**

- To evaluate each contestant's preparation for employment in the field of Engineering Design and drafting.
- Assess the contestant's skills in performing design and drawing tasks using computer aided design and drafting

**SKILLS AND KNOWLEDGE TO BE TESTED:**

- Understand and use fundamental commands for 3D parametric models and animated assembly drawings.
- Use CAD software to produce drawings that comply with the following standards:
  - CAN3-B78.1 –M83(R1990)
  - CAN/CSA-b78.2-M91
  - B97.3-M1982(r1992)
  - B97.3-1970(R1992)

- Use CAD software to produce a 3D parametric model from full dimensioned shop drawings.
- Produce an assembly drawing complete with the bill of materials.

Produce 3<sup>rd</sup> angle projection and assembly drawing complete with the Bill of Materials.  
plus animation file (Post Secondary)

**POINT BREAKDOWN (1000 POINTS)**

Modeling 600

Animation 300

Assembly Drawing 200

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

Software

Inventor 2009 or latest version installed at Red River Campus

Solid Edge ST installed at Red River Campus

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

Calculator

Pencils

Paper

Measuring instruments

**WORKSITE SAFETY RULES / REQUIREMENTS:**

None required

**FOR MORE INFORMATION PLEASE CONTACT:**

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