



2012 15th 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 – J214

NOTE:

Secondary level: 2 competitors per school. Maximum secondary students 8

Post-Secondary level: 3 competitors per school. Maximum post-secondary students 6

CONTEST START TIME AND DURATION: 4 hours, starting at 8:30 AM after registration.

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

POINT BREAKDOWN (1000 POINTS)

Modeling 400

Working Drawings and Appropriate Views 600

EQUIPMENT, TOOLS, MATERIALS TO BE PROVIDED BY COMMITTEE:

Software

Inventor 2011 or latest version installed at Red River Campus

Solid Edge ST3 installed at Red River Campus

EQUIPMENT, TOOLS, MATERIALS TO BE SUPPLIED BY COMPETITOR:

Calculator

Pencils

Paper

Measuring instruments

WORKSITE SAFETY RULES / REQUIREMENTS:

None required

NATIONAL COMPETITION ELIGIBILITY:

- A mark of **70% or higher** must be scored by the gold medalist in each contest in order for them to attend the National Skills Competition

FOR MORE INFORMATION PLEASE CONTACT:

Greg Summers

Assiniboine Community College

Phone: 204-725-8700 ext 6211

e-mail: summersg@assiniboine.net