

**SKILLS COMPETITION
MECHANICAL CAD– SECONDARY LEVEL**

Date: Wednesday, February 26, 2019

Location: Loyalist College

PURPOSE OF THE CONTEST:

To provide competitors with the opportunity to demonstrate their skills and knowledge in Mechanical CAD through practical application and interviewing.

SKILLS AND KNOWLEDGE TO BE TESTED:

- measurement and reverse engineering of mechanical components
- interpret blueprints used to detail mechanical components
- develop 2D layouts (drawings) using either Autodesk AutoCAD, Autodesk Fusion or Autodesk Inventor
- annotate the layouts using dimensions, leaders, hole notes, threads, center marks and notes
- export .PDF files of the layouts developed
- ensure annotations conform to CSA drafting standards

EQUIPMENT AND MATERIALS SUPPLIED BY THE COMMITTEE:

- personal computer
- Autodesk Professional Product Suite
- 12 inch rule
- micrometers in the size ranges applicable to the project
- Vernier calipers in the size range applicable to the project-no dial, no digital.

EQUIPMENT SUPPLIED BY THE COMPETITOR

- safety shoes
- safety glasses

SAFETY

Safety is the number 1 priority at Loyalist College. At the discretion of the judges and technical support any competitor can and will be removed from the competition site for not having the appropriate for not practicing safe codes of conduct.

Rules and Regulations

- Late arrivals will be disqualified from the competition
- A competitor will be disqualified for showing any disregard for themselves, other competitors or the equipment.
- A competitor will be disqualified for using equipment or materials that are not permitted
- A competitor will be disqualified for dishonesty or cheating.
- Competitors are not permitted to wear logos, except for school or school board logos.

ADDITIONAL INFORMATION

- 3D parametric solid modelling is preferred
- If you require alternate software or would like to use your own computer, please contact JBraithwaite@loyalistcollege.com.