

Project: Part Measurement

Time: 3 Hours

Marks: 25 points



1. Given:

- Annotation and View Guide
- One 3D PDF File
- 3D PDF Viewing Software
- One .DXF File of Part Outline

2. Task:

Create the following:

- 2.1** Create a solid model of the part using the supplied .DXF outline and the supplied 3D PDF file
- 2.2** Create a detailed part drawing(s) package which has at least the views, dimensions and tolerances shown in the provided "Annotation and View Guide"
- 2.3** Use the Skills Canada layout template which you have created prior to the competition for your detail drawing(s)
- 2.4** Reduce the volume of the part by 20%, refer to the instructions on the supplied "View and Annotation Guide"

3. Output:

- 3.1** Create a PDF file of your final detail drawing(s) which has **at least the exact views and annotations shown** in the "Annotation and View Guide"
- 3.2** Name your file: ###PM.pdf (### is your unique contestant number.)

4. General:

- 4.1** Each task throughout the competition is independent from the others.
- 4.2** DO NOT include any part of your name, school, province/territory in documents, or when naming files and folders being submitted.
- 4.3** Any file, identified by any part of a competitors' name, school, province/ territory, will not be judged.
- 4.4** When you have finished working on a specific day, do not close project files or turn off your computer, Judges will view and mark your work on screen as needed.
- 4.5** Ask the judges before leaving the competition area as the judges may require your assistance accessing your work.

5. Assessment:

Task 2.1 Create solid models of the part(s) by measuring

-Select features identifiable from the views presented in the "Annotation and View Guide": **10 points**

Task 2.2 Create a detailed drawing package containing annotations

-Select annotations identifiable from the details you create with reference to the "Annotation and View Guide": **10 points**

Task 2.4 Reduce the volume of the part by 20%, refer to the instructions on the supplied "View and Annotation Guide"

-Task has been accurately completed and displayed in accordance with the "Annotation and View Guide": **5 points**

Total: 25 points