



## 3D CAD Mechanical

### Event Specifications

<b>FRESNO CITY COLLEGE EVENT CONTACT</b> For any specific event questions, please contact:	
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#### SCOPE OF CONTEST

3D CAD will start at 10:45 AM and end at 11:30 AM. Contestant will be given a mechanical drafting problem especially chosen for 3D modeling.

#### NUMBER OF COMPETITORS

Individual event, limited to 30 competitors.

Fresno ROP reserves the right to modify enrollment due to limited spaces available

#### RULES AND PROCEDURES

The problems will test the contestant's skills and knowledge of the following CAD issues:

- Design Intent
- Solid modeling
- 2D sketching
- Geometric relations
- Extrusions
- Applied features

The drawing requirements may include, but are not limited to, the above areas. Necessary problem background information, drawing requirements and reference materials will be provided.

#### JUDGING CRITERIA

Judging will be done automatically and be based on who can create the models accurately (Volume Measurement) in the least amount of time.

#### EQUIPMENT AND MATERIALS

1. Supplied by the Career Skills Challenge:
  - a. Computer workstation using Windows 10
  - b. Choice between SolidWorks, Inventor, Fusion 360, or OnShape
  - c. 2 button wheel mouse