CAM/CNC PART

Event Specifications

Please Note: Event will begin at 8:30 AM

FRESNO CITY COLLEGE EVENT CONTACT For any specific event questions, please contact:	
NAME:	**Mark Mccollough**
EMAIL ADDRESS:	**Mark.Mccollough@Fresnocitycolllege.edu**

SCOPE OF CONTEST

CAM/CNC will start at 8:30 AM and end at 11:30 AM. Contestant will be given a machinable part drawing 1 day prior to the event.

NUMBER OF COMPETITORS

Individual event, limited to 20 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/CAM/CNC Process used in everyday machine shops.

- Reading drawing to create a CAD solid model to be machined 1 day prior to the event.
- Build a tool list to machine the part 1 day prior to the event.
- Create toolpaths to make the finished part at Fresno City College CAM Lab 1 day prior to the event.

EXAMPLES TYPES OF TOOLPATHS BUT NOT LIMITED TO

- Facing toolpath
- Drilling toolpath
- Tapping toolpath
- Pocketing toolpath
- Chamfer toolpath
- Engraving toolpath

- Setup Tools Length Offsets on a Haas VF2 mill using manual tool setter used at your school. Please bring your own **TOOL SETTER** that you are familiar with.
- Part will be measured for tolerance by competitor and will fill out a first article inspection sheet.

JUDGING CRITERIA

Judging will be done by the Fresno City College instructor.

Parts will be returned to the instructors after the competition. The grading criteria is printed at the bottom of the problem, so each contestant is aware of exactly what the judges will be looking for during judging, (judges are unable to write comments on entries due to time constraints).

EQUIPMENT AND MATERIALS

1. All tooling, equipment, and aluminum material will be donated by Fresno City College CAM Program:

    a. Computer workstation using Windows 11
    b. Mastercam 2026 software
    c. Fusion