

## CNC Programmer District Competition

Equipment and Materials: Supplied by host school:

1. Haas trainer Controller
2. G and M codes list
3. Computer with MasterCam and Fusion 360 CAM software

Equipment and Materials: Supplied by contestant:

1. All Students must have a one-page, typewritten résumé
2. Scientific calculator (non-programmable)
3. Pencil
4. Haas Manual

Contestants will demonstrate knowledge in CAM programming for a NIMS related mill part, CNC programming skills using a HAAS Controller from a NIMS related lathe drawing and ability to create a setup sheet or router. A test will include related knowledge and skill in the areas of engineering drawing interpretation, GD&T, technical math, machining practices, use of precision measuring tools.

### Score Breakdown

- Written Test - 30
- Cam Program - 25
- Written Program - 25
- Setup and Inspection Sheet - 20
- Resume/safety Penalty - (-5)