



Automated Manufacturing Technology Contest Update

Contest Date: Thursday, March 5, 2026

Location:

CWI Nampa Micron Education Center	5725 E Franklin Rd Nampa ID 83687	CNC Lab, NMEC 136
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Check-In and Orientation Time - 8:00 am

National Technical Standards will be followed as closely as possible.

Supplied by Technical Committee

- CNC Machining Center with:
 - Machinist vise
 - Hold-downs and clamps
 - Tool holders
 - End mills
- Part Design(s)
- Competition Packet
- Material for machining

Competitors Must Bring:

- Safety Glasses
- One page, hard-copy resume with competitor ID listed at the top.
- Three (3) computers:
 - One computer (laptop preferred) loaded with CAD software for the CAD program
 - One computer (laptop preferred) loaded with software for the CAM program.
 - One computer (laptop preferred) to connect to the CNC machine. This computer *must* have an open LAN Port (Ethernet connection) (Must have administrator privilege to the computer to configure the address of the LAN Port.)



Note: Computers must be preloaded with the fully licensed CAD, CAM and CNC Motion software and competitors must have administrative rights to the computers to implement changes if required. No Internet access is allowed during the competition. All software should be pre-installed and tested prior to arriving at the competition to ensure the system will run offline.

- One 6" dial or digital vernier caliper
- One dial indicator. Dial indicator must have a 3/8" holding shank to fit into the tool holder supplied by the technical committee.
- One calculator
- One pair of 3/4" and/or 1" parallels (complete set soft-jaw parallel pliers)
- One soft-face hammer
- One 6" or 12" steel rule
- Safety glasses with clear lenses
- Each team must provide two (2) USB memory devices for submitting work to judges
- Each team must provide a machinist handbook
- Two (2) - 6' multiple-outlet power strips

Note: Prescription safety glasses may be used only if they are equipped with side shields. If not, they must be covered with goggles.

Each team is allowed to bring their own appropriately sized end mills. See chart below for the recommended list of end mills.

Flutes	Fractions	MSC number	Cutting Diameter	Shaft Diameter	Cutting Length
2	3/8" end mill	01710243	3/8"	3/8"	0.5625"
2	1/4" end mill	01710169	1/4"	3/8"	0.5"
2	1/4" end mill	01748011	1/4"	3/8"	1"
2	1/8" end mill	01710086	1/8"	3/8"	0.375"
2	1/8" ball mill	01760081	1/8"	3/8"	0.375"
	90-Degree Conical	00199364		1/4"	
	60-Degree Conical	01787084		1/8"	