

TO: 2023 Automated Manufacturing Technology teams

FROM: Bruce Boisselle – Series Director: Metal Trades A
Adam Martin – AMT Event Manager, Intelitek

SUBJECT: UPDATED INFORMATION: Automated Manufacturing Technology Competition Event on Friday, April 29, 2022, Blackstone Valley Regional Vocational Technical HS 65 Pleasant Street, Upton, MA 01568

DATE: April 10, 2022

The purpose of this letter is to inform you of the required equipment list for the upcoming **Automated Manufacturing Technology contest**.

Please contact Bruce Boisselle with any questions at (978)373-4101 or email at Bboisselle@whittier.tec.ma.us

Equipment List for AMT contest:

- CNC Milling Machine
- (3) computers: (one computer for CAD, one for CAM & one for operating CNC machine)
 - Originally the AMT contest was limited to two computers; one computer for CAD work and the second for both CAM programming and operating the CNC machine. Over the past few years, a 3rd computer was allowed because certain CNC machines required an older style of hardware bus slot connection (interface card). This interface connection was found in older computers that were capable of operating the CNC machine fine but are not technically capable of running current CAM software. Therefore a 3rd computer was allowed in order to accommodate the CAM programming software requirements.
- (2) Tables: Be sure tables are supportive enough to hold the CNC machine. Tables should be no longer than 6' in length and will be arranged in an L-shape for each team's work area
- Chairs
- Dial or digital Vernier caliper
- Radius gage set: 1/32" – 1/2" range in 1/32" increments
- (3) Team members
- Workpiece fixturing: Vise, Step Block & Clamp Set, hold-downs stepped clamps, hold-downs, wrenches. (capable of holding workpieces up to 2.75" width and performing through-cuts)
- Tooling: (1/8" Flat, 1/8" Round, 1/4" Flat, 3/8" Flat, 1/2" Flat) (min. cut length 3/8") & 1/4" drill bit capable of 1" depth hole
- Collets and wrenches

- Set of Parallels ranging from ¼" to 1"
 - Dial indicator i.e. Starrett Last Word dial indicator
 - Calculator
 - Pen or pencils
 - Ruler
 - 20' Extension cord, power strip
 - Printer
 - Safety glasses
 - Vacuum (optional)
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UNLOADING MACHINES AT BLACKSTONE VALLEY SCHOOL:

You can unload your equipment at the school from 11-4 pm on Thursday. The contest will be staged in the Maintenance garage (located in the back of the building and is the same location as last year) We do urge all teams to unload and setup machines on Thursday afternoon in order to begin the contest promptly at 9 am. The contest is a 4-hour contest.

Good luck and we will see you at the contest!

Regards,

Bruce Boisselle