

SkillsUSA Events for

Machine Technology

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***FOR FULL CONTEST OUTLINES, PLEASE REFER TO THE STATE OR NATIONAL STANDARDS.**

***NATIONAL STANDARDS CAN ONLY BE ACCESSED BY INSTRUCTORS WHO HAVE A CURRENT PROFESSIONAL MEMBERSHIP.**

Contest Name:	Automated Manufacturing Technology
Shop Alignment:	Machine Technology, Engineering and CADD
Eligibility:	All Students
Contest Type:	Team of 3 Students, typically one CADD operator and two machinists
In-House Competition:	YES
District Event:	YES—written test
State Event:	YES—skill based
National Event:	YES—written, interview, and skill components

FOR FULL CONTEST OUTLINES, PLEASE SEE YOUR SHOP INSTRUCTOR OR SKILLS ADVISOR.

Official Contest Description:

“The contest evaluates teams for employment in integrated manufacturing technology fields of computer aided drafting/design (CAD), computer aided manufacturing (CAM), and computer numerical controlled machining (CNC). CAD operators construct the part geometry; the CAM operator generates the tool paths; and the CNC operator sets up and machines the part. Plotting is not a scored event; however the contestants must be able to generate a plot file that will be used to send their data to the plotter.”

Source: “Contest Descriptions.” SkillsUSA, www.skillsusa.org/competitions/skillsusa-championships/contest-descriptions/.

Contest Name:	CNC Milling Specialist
Shop Alignment:	Machine Technology
Eligibility:	All Students
Contest Type:	Individual
In-House Competition:	YES
District Event:	YES—written test
State Event:	YES—skill based
National Event:	YES—written, interview, and skill components

FOR FULL CONTEST OUTLINES, PLEASE SEE YOUR SHOP INSTRUCTOR OR SKILLS ADVISOR.

Official Contest Description:

“The purpose of this contest is to evaluate each contestant’s preparation for employment in Computer Numeric Control Milling. In addition, recognize outstanding students for excellence and professionalism. This contest will assess the ability to write CNC milling programs, interpret prints (including GDT), and measure/gage parts. Participants will also demonstrate theoretical knowledge of CNC machine configuration, setup and operations.”

Source: “Contest Descriptions.” SkillsUSA, www.skillsusa.org/competitions/skillsusa-championships/contest-descriptions/.

Contest Name:	CNC Turning Specialist
Shop Alignment:	Machine Technology
Eligibility:	All Students
Contest Type:	Individual
In-House Competition:	YES
District Event:	YES—written test
State Event:	YES—skill based
National Event:	YES—written, interview, and skill components

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Official Contest Description:

“The purpose of this contest is to evaluate each contestant’s preparation for employment in Computer Numeric Control Turning. In addition, recognize outstanding students for excellence and professionalism.

“This contest will assess the ability to write CNC turning programs, interpret prints (including GDT), and measure/gage parts. Participants will also demonstrate theoretical knowledge of CNC machine configuration, setup and operations.”

Source: “Contest Descriptions.” SkillsUSA, www.skillsusa.org/competitions/skillsusa-championships/contest-descriptions/.

Contest Name:	CNC Technician
Shop Alignment:	Machine Technology
Eligibility:	All Students
Contest Type:	Individual
In-House Competition:	YES
District Event:	YES—written test
State Event:	YES—skill based
National Event:	YES—written, interview, and skill components

FOR FULL CONTEST OUTLINES, PLEASE SEE YOUR SHOP INSTRUCTOR OR SKILLS ADVISOR.

Official Contest Description:

“The purpose of this contest is to evaluate each contestant’s preparation for employment in Computer Numeric Control Turning and Milling. In addition, recognize outstanding students for excellence and professionalism. This contest will assess the ability to write CNC turning and milling programs, interpret prints (including GDT), and measure/gage parts. Participants will also demonstrate theoretical knowledge of CNC machine configuration, setup and operations.”

Source: “Contest Descriptions.” SkillsUSA, www.skillsusa.org/competitions/skillsusa-championships/contest-descriptions/.