

SkillsUSA Florida Championships 2021

PREPARING FOR THE CONTEST

Introductory Information

This document serves as a supplement to the official SkillsUSA Technical Standards found online at absorb.skillsusa.org to be used to prepare for state-level virtual competitions. State-level contests will follow the "Standards and Competencies" outlined in the official SkillsUSA Technical Standards (Virtual). Contestants and instructors should review the contest's Technical Standards as a first step in preparing for a competitive event.

Any information contained in this document applies to state-level competitive events only. Download and review the State Virtual General Regulations at skillsusafl.org/state-conference for more information regarding virtual contests. The list of supplies and materials outlined below is subject to change; updates will be posted to our website on the contest updates page.

SkillsUSA Professional Members (advisors and teachers) can access the standards through SkillsUSA Absorb (absorb.skillsusa.org). To join as a Professional Member visit bit.ly/skillsusa-prof.

Clothing Requirements

Because of the nature of virtual competitions, official SkillsUSA competition clothing is not required, but is encouraged. Students may also compete in trade-appropriate attire if official contest attire is not available, competitors may dress in business attire. See State Virtual General Regulations for more information.

Class C: Contest Specific - Manufacturing/Construction Khaki Attire

- Official SkillsUSA khaki short-sleeve work shirt and pants
- Black, brown or tan leather work shoes
- Note: Safety glasses must have side shields or goggles (prescription glasses may be worn only if they are equipped with side shields. If not, they must be covered with goggles).

Supplies and Materials

Contestants will need the following for the contest:

- 1:1 device for each contestant with camera, microphone and internet connection of at least 2 Mbps up/down
- Filming Device
A device to complete a video recording. This may be a laptop, phone or other device with support devices like a tripod, microphone, etc. Preferred file format is MP4.
- 1-page resume for in PDF format
- CNC machining center with:
 - Machinist vise
 - Hold-downs and clamps
 - Tool holders
 - End mills

- Parts design
- Competition packet (provided by technical committee)
- Pencils
- Material for machining
- Two computers:
 - One computer loaded with CAD software for CAD program
 - One computer loaded with software for CAM program. This computer MUST have an open LAN port (ethernet connection) and Windows XP SP3/Vista/7-32 or 64-bit 8/10. (Must have administrator privilege to the computer to configure the LAN port)
- One 6" dial or digital vernier caliper
- One dial indicator. Dial indicator must have 3/8" holding shank to fit into the tool holder
- Calculator
- One pair of 3/4" and 1" parallels (complete set of soft-jaw parallel pliers)
- One soft-face hammer
- One 6" or 12" rule
- Safety glasses with clear lenses
- Machinist handbook
- Appropriately sized end mills
- Additional supplies and materials may be required. Contest supply and materials lists will be posted on the Contest Updates page by March 1.

SkillsUSA Florida will provide the following for the contest:

- Contest prompt and information
- Contest Prep Box, with materials needed for the contest like stopwatch, measuring tape, and large face digital clock that must be used in pre-recorded videos
- Meeting links and upload information

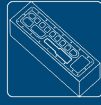
Local Proctor Information

A local contest proctor (non-advisor/program instructor) must be present for the contest. The proctor should review the technical standards, this document and the state contest which will include an integrity statement containing additional information for the proctor.

Once the contest is complete, the contestants, chapter advisor and onsite proctor will sign-off on the integrity statement. Additional contest proctor information can be found on our website.

Advisor Information

An advisor or instructor must be present for the duration of the competition to ensure safety and conduct standards are upheld.



Advisors will not participate in judging or interfere in the contest, except in the event of safety or conduct violations, or equipment malfunction. Any communication between students and their advisors during the contest will result in disqualification.

CONTEST INFORMATION

Knowledge Performance

This contest includes two multiple choice knowledge assessments. Instructions and credentials to complete these assessments will be provided when the contest window opens. These assessments should be completed under the supervision of the contest proctor.

- **Automated Manufacturing Technology Assessment** – Based on the standards and competencies as outlined in the Technical Standards.
- **Professional Development Career Readiness Assessment** – Assesses preparedness to enter the workforce as defined by the SkillsUSA Framework, which identifies skills that are essential for success in the workplace and life.

Skill Performance

This contest includes a team skill performance for three students and evaluates teams for employment in integrated manufacturing technology field of computer-aided drafting/design (CAD), computer-aided manufacturing (CAM) and computer numerical controlled machining (CNC).

Contest Guidelines

This team contest will require a team comprised of a specialist in each of the following fields: CAD, CAM, and CNC to design a project to meet the specifications of a client.

Teams will complete the contest using virtual simulation software

provided by the technical committee. More information on the software will be released before March 1, 2021.

Teams must submit a recording of their team completing the assigned tasks. The entire workstation and surrounding area must be visible, as well as the large-face digital clock. Additional components of the contest may be facilitated through live video feed on Zoom.

A contest proctor will be required for each recording and live session. Recordings must be setup, started, monitored and stopped by the contest proctor. The camera must be setup in such a way as to show all materials and a clear workspace. The contestant and large face digital clock should be always visible in the recording. The recording must be unedited (continuous) to ensure no outside help was provided.

Additional files may be required to be submitted. These requirements will be outlined in the state contest prompt.

The contestant will not mention their name, school, city or state. Basic safety practices related to the skill performed must be followed.

At the completion of the event, the team, chapter advisor and proctor will sign-off on the integrity statement. This integrity statement will need to be submitted with the entry.

SUBMISSION REQUIREMENTS

The following needs to be uploaded by the deadline. No late submissions will be accepted.

- Statement of Assurances: PDF file (*Upload by April 1)
- Resume: PDF file (*Upload by April 1)
- Video recording: MP4 file
- Project files: various
- Integrity Statement: PDF file