



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. Alternatively, 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
- All specialized tools, materials and equipment needed to compete in the contest*
- 24 VDC, 3A power supply
- A PLC or logic controller, including all necessary software and computer to program said device. The controller

must have a minimum of six (6) digital inputs and four (4) digital outputs. Inputs shall be 24VDC Sinking (inputs shall be activated by application of a +24VDC signal to the input terminal). Outputs shall be 24VDC Sourcing (outputs shall supply a +24 VDC signal to the load when activated). All loads will be returned to ground. Output capacity shall be no less than 0.5A, each. Check with your local vendor for suitable alternatives. *

- Additional supplies and materials may be required. Contest supply and materials lists will be posted on the Contest Updates page by March 1.

College/Postsecondary teams must also provide:

- One (1) PLC assembly. Teams competing at the college/post secondary level will be required to write a PLC program. This necessitates each team to provide its own PLC assembly and programming device/software (e.g., laptop computers or hand-held programming devices). The PLC assembly must meet the requirements outlined in the technical standards. *

*Industry support may be available for some of the required supplies, materials and equipment. More information available 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.

- **Mechatronics 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

The contest includes an oral assessment and multiple challenges, including but not limited to a troubleshooting and construction project.

Contest Guidelines

This contest will follow the standards and competencies outlined within the SkillsUSA Technical Standards. The technical committee in the process of determining the best method for a localized delivery. An updated will be published with more information as it is available.

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)*
- Project files: *various*
- Integrity Statement: *PDF file*