

2026 OKLAHOMA SLSC STATE MEMO

Mechatronics Contest Information

**NO SUBSTITUTIONS WILL BE ALLOWED AFTER FRIDAY,
MARCH 27, 2026**

**THERE WILL BE NO SUBSTITUTIONS ALLOWED ON-SITE AT THE
CONFERENCE**

Please double-check all registrations prior to the deadline. This includes secondary versus postsecondary as well as contests

***Contest will follow national technical standards unless otherwise stated in the state memo.**

The 2026 Oklahoma SkillsUSA contest will be held April 20th and will be hosted at the Arvest Center, 100 Civic Center, Tulsa, OK 74103

CONTEST FEES

In addition to the regular conference registration, there will be a lunch fee of \$25.00. This fee will be added to the contestant's registration when it is completed online.

CONTEST

Contestants will need to arrive to the Arvest Business Center (formerly known as the Cox Business Center) on Monday, April 28, 2025 and check in the Mechatronics contest area at 8am.

At the option of the Technical Committee

There may be a contestant meeting at 6 p.m. the evening **before** the event to get your contestants oriented to the equipment set up, go over the format of the contest, and hand out documentation they will need to study to be prepared for the contest. This meeting will be held in the Mechatronics contest area and should only take an hour or so.

Question and answer time will be allowed.

See the Festo web site for examples of the modules you will be working on.

<https://ip.festo-didactic.com/Infoportal/MecLab/Overview/EN/index.html>

RESUME

All contestants will submit a digital resume prior to contest day. Contestants will receive an email to the address used to register the contestant for contest with instructions and link to access the SkillsUSA Competitor Portal page. The email will contain contestant's username and contestant number, which are required to login to the Competitor Portal.

CONTEST TESTING

Contestants will be judged on their SkillsUSA knowledge through the Professional Development test and a knowledge test based on their contest area, unless otherwise stated in the state memo. **The knowledge test will be given on-site at the Arvest center during the competition.**

Contestants will NOT be allowed to use cell phones or other electronic communication devices during the contest and will be disqualified for doing so.

LUNCH

A box lunch is included in contest registration/lunch fee for contestants. Also a box lunch will be provided for judges.

It is recommended to bring bottled water and snacks (energy bars, etc.) to tide contestants over until lunch

INDUSTRY AWARDS

*****NEW 2026- ADVISOR MEDALS WILL NOT BE PROVIDED BY OKLAHOMA SKILLSUSA, BUT WILL BE AVAILABLE FOR PURCHASE IN THE SKILLSUSA STORE**

*****Prizes are the responsibility of the individual contests. Prizes are not guaranteed and are not supplied at the SkillsUSA Oklahoma state level.**

Each participating school is expected to furnish an industry award. Industry awards should be labeled with the name and address of the award supplier so that an appropriate "Thank you" may be sent, must be accompanied by an *industry award donation information sheet* (available on the Oklahoma SkillsUSA website). **Please**

bring prizes to the awards area at the Arvest Convention Center Tulsa Ballroom on Sunday, April 19th between 12-4pm or Monday, April 20th between 8am-4pm.

AWARDS CEREMONY

Winners will be recognized at the General Session on Monday night, April 20th, at 7pm, or Tuesday morning, April 21st at 9am. ***(please pick the correct awards ceremony for your contest)***

All competitors must wear official SkillsUSA dress to the Awards Session, where winners are announced. Competitors who are not dressed appropriately or lack official attire will be denied access to the awards stage. Students must be present when their contest is announced. If a student is improperly dressed, absent, or misses their contest being called, the production will not be paused for any reason, and they will forfeit their opportunity to go on stage to receive the award. No exceptions will be made. No hats or sunglasses will allow to be worn on stage.

- Official dress for men: Official blazer, jacket or sweater; black dress slacks; white dress shirt; plain black tie with no pattern or SkillsUSA black tie; black socks and black shoes.
- Official dress for women: Official blazer, jacket or sweater; black dress slacks or knee-length skirt with business like white, collarless blouse or white blouse with small, plain collar that may not extend onto the lapels of the blazer, and black dress shoes.

Please see the National SkillsUSA [clothing guidelines](#) as needed

TOOLS AND SUPPLIES

Contestants will need to bring the tools and components listed below. Each team must bring the following own items:

- Complete Festo MecLab kit (all 3 stations, compressor, and any tools)
- **Competitors will need to bring a PLC they are familiar with, a power supply for their PLC, and a computer to program it with**. Minimum configuration: 24 V, 8 digital inputs, 8 digital outputs
- Digital Multimeter
- Metric combination hex key
- #2 lead pencils

- Safety glasses
- Screwdrivers set and needle nose pliers

Activities

Students will work on their own Festo MecLab Stations. Tasks may include:

- Assembling hardware based on schematics
- Connect pneumatic components
- Connect electrical components
- Programming a PLC to control the station.

Reminder: Each team of two must bring their own PLC with programming cables and computer with programming software.

- Students will perform circuit creation and troubleshooting activities on an AC/DC device
- Written test on contest day

CLOTHING REQUIREMENTS

Contestant will follow official contest dress as described in the national technical unless otherwise stated in the state memo. Students can not wear any identifying information on their uniform that will associate them with a school or technology center.

Please see the National SkillsUSA [clothing guidelines](#) as needed

CELLPHONES AND OTHER SMART DEVICES

Cellphones, electronic watches and/or other electronic devices not approved by a competition's technical committee are NOT allowed in the competition area. Please follow the guidelines in each technical standard for approved exceptions. Technical committee members may also approve exceptions onsite during the SkillsUSA Championships if deemed appropriate.

CONTEST DESCRIPTION AND SCORING

Through this competition, we are selecting a secondary and postsecondary contestant to represent Oklahoma at the SkillsUSA Championships. We will follow the national rules, regulations, and contest content as closely as possible. We want our contestants to be prepared to compete at the national level. Additional rules and regulations may be provided in order to ensure a fair and rewarding competition at the

contest site.

The contest will consist of:

1. An online SkillsUSA (PDP) knowledge test 2.5%.
2. 10%: Written test covering knowledge of electrical, electronic, mechanical, and fluid competencies, and hands-on practical work in designing, constructing and troubleshooting typical manufacturing work cells;
3. 72.5% Electro-Pneumatics Machine. Given equipment and a problem statement, contestants will assemble the required hardware to implement. Contestants must bring their own PLC, laptop, and communication cable and will be required to program it.
4. 15% Troubleshooting skills. Contestants will be presented with stations with defects and will be asked to troubleshoot to locate the faults. Contestants will also be given electrical schematics and asked to create the circuits shown.

ADDITIONAL INFORMATION

If you have any questions about the contest, please contact **James Peterson (Trade Chair)**, **Ben Morgan (Program Specialist)**.

National Technical Standards can be found on Pathful, which you can access with your professional SkillsUSA membership. Technicals are updated periodically, please check regularly.

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