

Mobile Robotics

State Contest Information

DATE, TIME and LOCATION

Contestant Meeting: Teams need to attend the contestant meeting Sunday, April 21th, 2024 at 5:00pm in the contest area. The following items will be turned in at this meeting. Points may be deducted for items turned in at a later time.

- Engineering Notebook
- Robot – After the meeting the robot will be checked to verify that it meets constraints.

Contest: Teams will report to the contest area Monday, April 24th 2023. Contestants will be allowed to enter the contest area at 8:00 a.m. The contest will begin at 8:45 a.m. and students will remain in the contest area until after the contest is complete. Contestants are encouraged to bring snacks and/or drinks -- they will not be permitted to leave the contest area. Lunch is not provided. Contestants will be escorted by a judge to the concession to purchase a lunch if they do not bring their own. Contestants are required to be in official SkillsUSA dress.

RULES and REGULATIONS

From this competition, we will select one secondary contestant and one post-secondary contestant to represent Oklahoma at the National SkillsUSA Championships in Kansas City. Therefore, we will follow the national rules and regulations and content as closely as possible. We want our contestants to be prepared to compete at the national level. The national rules, Contest Guidelines, can be found on the national web site –

<https://www.skillsusa.org/competitions/skillsusa-championships/contest-descriptions/>

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One **very important difference** from nationals is that teams must bring their robot already built, programmed, and ready to compete at state.

Programs and flowcharts DO NOT need to be from the coding software in order to be scored at the state competition.

Points will be deducted from the total points for not meeting the clothing requirement.

The robot must be programmed on a competition template. A competition switch will be used for each round.

EQUIPMENT and MATERIALS

Teams will provide the following:

1. Robot built, programmed, and ready to compete.
2. SkillsUSA VEX Robotics Kit (only parts listed on bill of materials).
3. Engineer's Notebook.
4. Laptop with licensed VEX programming software (for the Cortex microcontroller or V5 Robot Brain) and presentation software.
5. Safety glasses.
6. Allen wrench set.
7. Power strip and extension cord.

NO POWER EQUIPMENT

CLOTHING REQUIREMENT (not for check-in on Sunday)

For men: Official SkillsUSA white polo shirt with black dress slacks, black socks and black leather shoes.

For women: Official SkillsUSA white polo shirt with black dress skirt (knee-length) or slacks, black socks or black or skin-tone seamless hose and black leather dress shoes.

All: Safety glasses with side shields or goggles. (Prescription glasses can be used only if they are equipped with side shields. If not, they must be covered with goggles.)

These regulations refer to clothing items that are pictured and described at www.skillsusastore.org. Points will be deducted from teams that do not meet these clothing requirements during the contestant meeting and/or contest.

AWARDS CEREMONY

Contest winners will be recognized at the Awards Ceremony on Tuesday, April 23th, 2024, in the Tulsa Convention Center Arena. Official SkillsUSA attire is required! Any contestant winner who is not in official attire will not be permitted on stage, but will be escorted behind the stage to receive his/her medallion.

Should additional information be needed, please contact Gayle Hahn or David Bandy, Contest Chair, by phone at email at dbandy@haskellps.org or gayle.hahn@tulsatech.edu