

# Tennessee Skills USA Mobile Robotics Modifications Leave No Trace

## Appendix C – State Competitions

Some State Skills USA competitions are held in smaller venues and are typically only four hours long. Because of this, the state director and his or her technical committee may choose to substitute or change the Mobile Robotics challenge in a variety of ways. It is up to the state to determine the how they would like to change the contest to better suit their needs. **Guidelines for Tennessee** are as below highlighted in yellow.

- Omit the math problem.
- Omit the Virtual programming challenge Reference Page 7 1.3.1 #4 Coderz (not used in state competition)
- Omit the engineering change order.
- Increase the number of rounds per team.
- Omit the assembly period (allow teams to bring pre-assembled and ready to compete robots to the event). Tools required reference page 13-14 1.8 Required Materials. Since your robot will be constructed prior to the state event some tools will not be required.

Additional VEX components not listed on the Bill of Materials used at the National Contest may be permitted at a state competition. Note that teams will need to build their robot from scratch at the National Contest using only parts provided by the Technical Committee.

▪ **Local state technical committee retains the right to determine what VEX components may be allowed at the state event. ANY VEX EDR components will be allowed in the state competition as long as they will meet the standard VEX competition inspection guidelines. (see attached) Please note that each team that makes it to National SkillsUSA contest will be limited to VEX Classroom & Competition Super Kit: P/N 276-3000 as shown on page 18 of the TEAM Guide.**

- Inspection based on size constraints should be included
  - Modify the competition scoring matrix or BOM to align with other changes for their state.
- Please check with your SkillsUSA State Director and the associated Technical Committee for information regarding any modifications to the event as described in this document. State Competitions are allowed to modify the rules of this competition to fit their specific state requirements.
- For more information on how to run or find resources for a Mobile Robotics Competition in your state, please contact the Mobile Robotics National Technical Chair, Trevor Pope at [Tpope@Intelitek.com](mailto:Tpope@Intelitek.com).

For your State Competition contact Learning Labs Inc. 800-334-4943 [david.richardson@lli.com](mailto:david.richardson@lli.com)

Printed Program for Robot: Teams should print their code and include it in the Engineering Notebook. This program should follow the team's flow chart. This does not need to be the final robot program; however, teams are encouraged to make their program as complete as possible ahead of time to maximize their score.

Program Flow Chart: Teams are encouraged to include a flow-chart of their robot's program.