



Mechatronics

Career Competition

Career Cluster: Manufacturing/STEM

State Qualifying Event: No

National Contest: Yes

Participation: Team of 2

Competition Description

To evaluate each team’s preparation for employment and to recognize outstanding students for excellence and professionalism in the field of Mechatronics. Mechatronics is a career and educational discipline that combines the industrial skills of mechanics, electronics and computer- based controls with a team-oriented approach to problem solving. Skilled Mechatronic technicians are required for the maintenance, repair and operation of modern automated manufacturing systems.

Tasks To Be Evaluated

Read and interpret technical drawings of various types. Identify and troubleshoot competition modified mechanical, pneumatic, electrical and electronic components.

Clothing Requirement

National Requirement:

Class C: Competition Specific: Manufacturing/ Construction Khaki Attire

- Official SkillsUSA khaki short-sleeve work shirt
- Khaki pants
- Black, brown, or tan leather work shoes.

State Requirement:

National Requirement OR

- Khaki short-sleeve work shirt
- Work pants of any kind are acceptable dress (no jeans)
- Black, brown, or tan leather work shoes.
- Any embroidered names or school patches must be covered, if applicable.

Provided by Competitor

- Pencil
- Basic Calculator
- One-page resume

Provided by Technical Committee

- All measuring tools
- Festo MecLabs
- Festo AC/DC