



Robotics: Urban Search & Rescue

To evaluate each competitor's preparation for employment and to recognize outstanding students for excellence and professionalism in the field of robotics.

On-Site/Off-Site	<ul style="list-style-type: none"> ● On-Site
Contest Date	<ul style="list-style-type: none"> ● 3/18/2025
Contest Location	<ul style="list-style-type: none"> ● Convention Center ● C-Hall
Early/Normal Start Time	<ul style="list-style-type: none"> ● Normal Start Time ● Registration will open at 8:00am. Please report to B-Hall Show Office for Registration. Competition will begin at 10:00am.
Contest Open/Closed	<ul style="list-style-type: none"> ● Open ● Exhibit Halls do not open to observers until 12:00pm.
Eligibility & Contest Type	<ul style="list-style-type: none"> ● Please refer to the Program Guidelines for eligibility- https://www.ohioskillsusa.org/resources/ ● Straight to State Contest (No Regional Qualifier)
Clothing	<ul style="list-style-type: none"> ● <u>For Competition Day the Dress Code is:</u> Class F ● <u>For the Awards Ceremony the Dress Code is:</u> Class A or Class J ● 2025 SkillsUSA Ohio Clothing Guide
Safety Equipment Required	<ul style="list-style-type: none"> ● 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).
Testing	<ul style="list-style-type: none"> ● Students should be prepared to take a written knowledge test.
Provided by Contestant (Tool List)	<ul style="list-style-type: none"> ● 25 ft UL approved extension cord and surge protector ● Laptop computer (optional) for technical presentation purposes only. Laptop not used for robot operation. ● Fully assembled, tested, and operational ordnance disposal robot conforming to the guidelines and parts restrictions listed in

	<p>this document (see “Urban Search and Rescue Challenge Kit Bill of Materials” in Appendix)</p> <ul style="list-style-type: none"> ● Presentation software for oral presentation to judges (optional) ● CAD/CAM software for blueprint design (Optional: If needed for the competition) <ul style="list-style-type: none"> - Please ensure you have tried and tested CAD software when disconnected from your school’s WIFI. If necessary, plan to bring a hotspot to the contest. TEST THIS PRIOR TO ARRIVAL. ● Completed Engineering Notebook <p>Note: Technical drawing/blueprint of robot drive chassis must be included in notebook</p> ● Video Camera attached to Robot ● Video Camera receiving unit capable of connecting to LED Video Display Screen supplied by Technical Committee, or goggles, tablets or handheld devices may be used. ● Pens, pencils, and paper ● Tools: <ul style="list-style-type: none"> - Allen wrench set (English) - Clamping vise - Metal tin snips - Power strip - Calculator - Tape measure - Hammer - Metal file - Flat-head and Phillips-head screwdrivers - Wire strippers (one set) - Wire cutters/snips (one set) - Roll of electrical tape - 4" nylon wire ties (25 pack) - Multimeter - Multi nut pliers - Metal-cutting hacksaw (manual) - Cordless drill with charger - Set of standard drill bits - Pliers (needle nose or regular) - Set of box wrenches ● Note: ONLY the tools listed in the Robotics: Urban Search and Rescue competition standard above will be allowed in the contest area during the competition.
<p>Contest Notes, Themes, & Deadlines</p>	<ul style="list-style-type: none"> ● Please click this link to access Robotics Urban Search and Rescue Manual
<p>WIFI Provided?</p>	<ul style="list-style-type: none"> ● No

<p>Special Notes/Rules for All Contests</p>	<ul style="list-style-type: none"> • Started in 2024, all Skilled Trade State Contests (most leadership contests already use scenarios) will begin to add a scenario-based component. • <u>Wi-Fi will NOT BE AVAILABLE unless listed above</u>. If you need WIFI access please plan to bring a hotspot. • All safety requirements will be heavily enforced. Competitors are to follow all safety standards and OSHA Regulations • <i>Contestants MUST HAVE A COPY OF THEIR EMERGENCY MEDICAL FORM IN THEIR NAME BADGE AT ALL TIMES</i> • <u>THE FOLLOWING ITEMS ARE PROHIBITED; VIOLATION OF ANY OF THE FOLLOWING MAY RESULT IN COMPETITOR DISQUALIFICATION:</u> <ul style="list-style-type: none"> • Contact with Contest Coordinators is prohibited. Contact with Contest Coordinators outside of the SkillsUSA Ohio is strictly prohibited. • Possession of smart watches and/or phones during the contest and/or in contest. • Contact with anyone outside of the contest area once the contest begins. • Inappropriate communication between contestants such as verbally degrading another contest. • Cheating on any portion of the contest such as informing another contestant of the skills/test prior to competing. • Lack of Copy Emergency Medical Form in Name Badge.
<p>National Technical Standards</p>	<ul style="list-style-type: none"> • Please refer to the 2024-2026 National Technical Standards for all contests. All standards included may be tested in any competition. • In conjunction with National Standards, lack of understanding of State Level competition standards (this document) may result in student loss of contest.
<p>Resume/Interview Requirement</p>	<ul style="list-style-type: none"> • All SkillsUSA Ohio State Championship Contests will require a short interview component. Students should be prepared with basic job interview skills. • All contestants <u>must have a hard copy</u> of a one (1) page personal resume.