



Cyber Security

To evaluate each competitor's preparation for employment and to recognize outstanding students for excellence and professionalism with relation to the entry level skills within the field of cyber security.

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 ● B-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	<p><u>For Competition Day the Dress Code is:</u> Class F</p> <p><u>For the Awards Ceremony the Dress Code is:</u> Class A or Class J</p> <ul style="list-style-type: none"> ● 2025 SkillsUSA Ohio Clothing Guide
Safety Equipment Required	<ul style="list-style-type: none"> ● N/A
Testing	<ul style="list-style-type: none"> ● There is no written test required for this competition.
Provided by Contestant (Tool List)	<ul style="list-style-type: none"> ● Laptop Computer ● Modern Web Browser (Firefox recommended)

	<ul style="list-style-type: none"> ● Must be able to access the URL https://sandbox02.cech.uc.edu/vcac and allow pop-ups for this site. ● 1 Typed resume per contestant
<p>Contest Notes, Themes, & Deadlines</p>	<ul style="list-style-type: none"> ● End-Point Security Given a scenario, contestants will apply knowledge of industry standard processes and procedures to secure a stand-alone workstation running Windows 10. Contestants will be asked to perform tasks in some or all the following areas: <ol style="list-style-type: none"> 1. Local user management 2. Access Control 3. Password policy management 4. Local user and computer policy management 5. Manage security services 6. Manage installed software and services 7. Malicious software removal <p>Secure Networking Given a scenario, contestants will apply knowledge of security related activities and configurations to setup a secure network with both layer 2 and layer 3 devices. Cisco packet tracer will serve as a simulation platform. Contestants will be asked to perform tasks in some or all the following areas:</p> <ol style="list-style-type: none"> 1. Configure switch/router security 2. Network segmentation 3. Manage port security 4. Access control lists 5. Establish secure connect to devices management environment <p>Server Hardening Given a scenario, contestants will apply knowledge of industry standard processes and procedures to secure an Active Directory domain server running Windows Server 2019. Contestants will be asked to perform tasks in some or all the following areas:</p> <ol style="list-style-type: none"> 1. User and group management 2. Apply appropriate role-based permissions, ACLs, and rights to network users and groups 3. Configure server security logging and auditing 4. Apply Group Policy 5. Secure network services and ports

	<p>Network Perimeter Security Given a scenario, contestants will apply knowledge of network perimeter security to configure typical boundary devices and services. PfSense will serve as the platform to configure effective network zones and edge security systems. Contestants will be asked to perform tasks in some or all the following areas:</p> <ol style="list-style-type: none"> 1. Configure device management security 2. Configure firewall rules to create a three-homed boundary between three network zones with different security levels. 3. Configure NAT and/or port forwarding 4. Create a VPN connection 5. Configure IPsec Forensics Given a scenario, contestants will apply knowledge of forensics activities associated with Incident Response Actions. <p>Contestants will collect and analyze information from a variety of sources to identify and report events that have occurred on a system. Contestants will be asked to perform tasks in some or all the following areas:</p> <ol style="list-style-type: none"> 1. Packet (PCAP) analysis 2. Log analysis 3. Collect, process, and preserve computer-related evidence. <p>Pen Testing Given a scenario, contestants will apply knowledge and skills related to the process of penetration testing. Contestants will plan, prepare, and execute tests of systems to identify, report, and/or exploit vulnerabilities in a system or network. Contestants will be asked to perform tasks in some or all the following areas :</p> <ol style="list-style-type: none"> 1. Port Scanning 2. Vulnerability Scanning 3. Packet capture (Man in the Middle) 4. Network discover (enumeration) 5. Perform a (TBD) attack 6. Exploit a known vulnerability to exfiltrate data (flag) from remote system 7. Establish a persistence in a compromised network or device.
WiFi Provided?	<ul style="list-style-type: none"> ● Yes

<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.