

SkillsUSA

PENNSYLVANIA

CYBER SECURITY

Location: TBD

Date: 4/12 Security Pro Certification Exam – 4/13 Competition

Purpose

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 Cybersecurity.

Eligibility

Open to a team of two active SkillsUSA members enrolled in programs with Cyber Security, Information Security, or Systems and Networking Security Architecture as the occupational objectives. Each state may send one high-school and one college/postsecondary team.

Clothing Requirements

Please follow the SkillsUSA National Technical Standards Clothing Guidelines.

Class E: Competition Specific — Business Casual

- Official SkillsUSA white polo shirt
- Black dress slacks or black dress skirt (knee-length minimum)
- Black closed-toe dress shoes

Note: Competitors must wear their official competition clothing to the competition orientation meeting.

Safety Requirements

The SkillsUSA Technical Committee and Judges are released from all responsibility relating to personal injury resulting from the use of the equipment. Contestants will be removed from competition if they are using the equipment in an unsafe manner.

Equipment and Materials

1. Supplied by the technical committee:

Access to TestOut, switches, servers.

Please email contestants full name and email address to tczachor@ctclc.edu. Students will then be given access to TestOut 2 weeks before the contest to become familiar with the TestOut system.

2. Supplied by the competitor:

ONE laptop/desktop/tablet per contestant

OS/Software supporting cyber tools (network/vulnerability scanning, packet capture/analysis, etc)

Power strip

25' Cat5/6 Ethernet cable per contestant

NOTE: NO ADDITIONAL TOOLS WILL BE PERMITTED.

Resume Requirement

Competitors must create a one-page resume. Failure to submit a resume will result in a point deduction penalty. Resumes in an envelope, with their Contestant/Team # written on the outside.

Prohibited Devices

Cell phones and/or other electronic and wearable devices are NOT allowed in the competition area. This includes restrooms and competition holding areas.

Penalties for Prohibited Devices:

If a competitor's electronic device makes noise or if the competitor is seen using it at any time during the competition, an official report will be documented for review by the SkillsUSA Pennsylvania Championships director. If confirmed that the competitor used the device in a manner which compromised the integrity of the competition, the competitor's scores may be canceled.

Scope of the Competition

The competition is defined by industry standards as determined from elements of the NIST Publication 800-181 Cyber Security Workforce Framework Categories include:

Securely Provision (SP)

Operate and Maintain (OM)

Protect and Defend (PR)

Knowledge Performance

The knowledge portion of the contest will consist of the TestOut Security Pro Certification Exam. Exam will be Wednesday, April 12th, 2023 @ TBD.

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Skill Performance

- Vulnerability Scans
 - Contestants will need to discover server(s) on the network, performing a vulnerability scan and remediation report.
- Capture-The-Flag
 - Contestants will be given a series of challenges where they will find flags by solving riddles, puzzles, cryptograms, vulnerability exploitation, etc. These challenges will be based on elements from NIST SP 800-181R1.

Competition Guidelines

1. The competition requires a team (tactical unit) of two competitors. Each will have to display equivalent subject matter expertise in all competency areas. The stages of the competition are as follows:
 - a. Cognitive Domain — The Knowledge/Certification exam
 - b. Psychomotor Domain — Hands-on skills task stations (may be live or virtual)

All Scopes are the property of SkillsUSA Pennsylvania.