

(320) Computer Security (S | PS)

Description

Demonstrate knowledge of fundamental security management tasks in Windows® and Linux® networking environments. *This event includes a separate certification component which will be offered in conjunction with the BPA event at NLC; all members passing this component will receive an industry certification regardless of their overall event placement.* The certification offered will be IT Specialist – Network Security and upon passing the exam, members will be awarded 100 points to their final score. All persons planning to take a certification test MUST register with Certiport (www.certiport.com) before attending NLC to create their Certiport profile. Members must include their BPA member ID in their Certiport profile when they register online. For more information on the exam, visit: <http://www.certiport.com>

Eligibility

Any Secondary or Post-secondary division student member may enter this event.

Member must supply

Sharpened No. 2 pencils, pens

Cordless calculator: Electronic devices will be monitored according to ACT standards. See [NLC Calculator Guidelines](#). Members who violate this rule will be *disqualified*.

Published and/or unpublished non-electronic written reference materials, this includes hands-on tasks

No equipment, supplies, or materials other than those specified for an event will be allowed in the testing area. No previous Business Professionals of America tests and/or sample tests or facsimiles thereof (handwritten, photocopied, or keyed) may be taken into the testing area. Violation of this rule will result in disqualification.

Competencies

- Demonstrate knowledge of security threats
- Understand infrastructure security
- Demonstrate knowledge of cryptography, encryption, access control and authentication
- Demonstrate security tactics to prevent against external attack
- Demonstrate knowledge of operational and organization security
- Demonstrate hardening internal Windows and Linux systems and services
- Demonstrate knowledge of TCP/IP
- Demonstrate hardening Internet work devices and services
- Demonstrate knowledge of network defense fundamentals
- Create security policies
- Perform a risk analysis
- Demonstrate knowledge of biometrics
- Demonstrate knowledge of wireless security
- Demonstrate knowledge of internet security issues
- Manage certificates
- Monitor security infrastructure
- Identify protocol security concepts

Method of evaluation

Objective Test

Certification test taken per conference schedule at NLC

Application: Top 10 members at national level only. Reference materials are allowed for the application portion. At the national level, scores from the preliminary round and objective test do *not* advance with member to finals. Final contest score is based solely on hands-on component.

Length of event

Preliminaries - No more than sixty (60) minutes for objective test, no more than one hundred twenty (120) minutes for certification test.

Finals - No more than sixty (60) minutes for hands-on tasks

Entries

Each state is allowed five (5) entries