

(315) Network Administration Using Cisco® (S | PS)

Description

Demonstrate knowledge of fundamental network management tasks in a Cisco® environment.

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Published and/or unpublished non-electronic written reference materials, this includes hands-on tasks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

Comptencies

- Demonstrate knowledge of OSI and TCP/IP models, static and dynamic routing
- Demonstrate knowledge of network topologies and components
- Demonstrate knowledge of switch and router configuration
- Demonstrate knowledge of network management
- Demonstrate knowledge of NAT, ACLs for IPv4
- Demonstrate knowledge of LAN/WAN design, routing, switching, and security protocols
- Demonstrate knowledge of IPv6
- Demonstrate knowledge of VLANS
- Demonstrate knowledge of FHRP

Method of evaluation

Objective Test

Application: Top 10 members at national level only (Packet Tracer Simulation software provided by Cisco® may be utilized). 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

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

Entries

Each state is allowed five (5) entries