

## **(350) Linux Operating System Fundamentals (S | PS)**

### **Description**

Demonstrate your ability in hardware & system configuration, system operation & maintenance, security, automation & scripting, and troubleshooting & diagnostics within the Linux Operating System. *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 the TestOut Linux Pro exam and upon passing the exam, members will be awarded 100 points (pass or fail) to their final score. For more information on the exam, visit: <http://www.testout.com/certification/pro-exams/linux-pro>

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Published and/or unpublished non-electronic written reference materials, this includes hands-on tasks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

- Using Linux command line utilities
- Configure and use Linux shell environments
- Manage Linux system startup/shutdown, system processes
- Use Linux package management
- Manage and storage devices in Linux formats
- Manage the Linux file system, configure networking and printing
- Manage users and groups in Linux
- Configure, monitor, and manage system access in Linux

### **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

This event is sponsored by:

### **Entries**

Each state is allowed five (5) entries

