

## (350) Linux Operating System Fundamentals

### Description & Eligibility

Demonstrate ability in hardware and system configuration, system operation and maintenance, security, scripting, troubleshooting and diagnostics within the Linux Operating System. Any postsecondary or secondary division contestant may enter this objective event.

### Contestant Must Supply

- Published and/or unpublished non-electronic written reference materials.
- Cordless calculator: Electronic devices will be monitored according to ACT standards. See NLC Calculator Guidelines. Contestants who violate this rule will be *disqualified*.

### Competition Notes

- Method of evaluation: objective.
- Business Professionals of America assumes no responsibility for hardware/software provided by the contestant.
- No equipment, supplies or materials other than those specified for the event will be allowed in the testing area.
- Previous Business Professionals of America tests and/or sample tests (handwritten, photocopied or keyed) may not be taken into the testing area. **Violation of this rule will result in disqualification.**
- At NLC, contestants will take TestOut Linux Pro certification as part of the event. Contestants passing this certification will have 50 points added to their event score. For more information on the exam, visit: <http://www.testout.com/certification/pro-exams/linux-pro>. Reference materials are not allowed for certification testing.
- The top 10 contestants at nationals will have a finals round with a hands-on component. Scores from the preliminary round and objective test do *not* advance with contestant to finals. Reference materials are allowed for the application portion.
- 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 vary by state.

### Contest 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

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