

ITSUP-102: CompTIA A+ Essentials

Course Description:

This course prepares students for the CompTIA A+ Certification exam. Students will work on hands-on labs that build and configure computers; replace parts; install and configure operating systems, and troubleshoot hardware, software, networking, and security problems. Additional topics and hands-on activities include multithreading, UEFI, disk and memory management, virtualization, mobile devices, laptops, OS software updates and optimization, managing device drivers and virus protection.

Total Credits: 3.00

Course Competencies

- 1. Explain the functions of system modules**
- 2. Demonstrate basic procedures for changing field replaceable modules for desktop and portable systems.**
- 3. Demonstrate the appropriate configuration steps for common peripheral devices**
- 4. Demonstrate procedures for configuring interface connection types**
- 5. Troubleshoot issues during PC upgrade**
- 6. Troubleshoot PC systems**
- 7. Demonstrate preventive maintenance of PC systems**
- 8. Identify the various types of motherboard hardware**
- 9. Troubleshoot printer problems**
- 10. Configure computer networks**
- 11. Configure a system for Internet access**
- 12. Install various operating systems**
- 13. Demonstrate command-line functions/utilities to manage operating systems**
- 14. Manage computer files and directories**
- 15. Create an emergency boot disk**
- 16. Use Safe/DOS modes**
- 17. Troubleshoot PC bootup/startup error messages**
- 18. Explain concepts relating to malware**
- 19. Managing mobile devices**