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