SYLLABUS

GENERAL DESCRIPTION

Course: CompTIA A+ 1101

Code: 220-1101

Contact hours: 40

Academic term: TBA

COURSE DESCRIPTION

This Class is aimed at developing skills and abilities necessary to assemble components based on customer requirements. Install, configure and maintain devices, PCs and software for end users, understand the principles of network systems and security / forensic analysis, properly and safely diagnose, fix and document common hardware and software problems while applying troubleshooting skills. Successful candidates will also provide appropriate customer service; understand the basics of image virtualization, processing, and deployment. This course is aimed at obtaining the CompTIA A + certification.

OBJETIVES

Configure, differentiate, install, identify, explain, and compare through physical and virtual laboratories. The objectives corresponding to the CompTIA A + 220-1101 certification exam in hardware, network systems, laptops, printers and operations procedures respectively. At the end of the course, the student will obtain the necessary practice to master the skills established by the information technology industry.

SPECIFIC OBJECTIVES

Lesson 1: Installing Motherboards and Connectors
- Explain Cable Types and Connectors
- Install and Configure Motherboards
- Explain Legacy Cable Types

Lesson 2: Installing System Devices
- Install and Configure Power Supplies and Cooling
- Select and Install Storage Devices
- Install and Configure System Memory
- Install and Configure CPUs

Lesson 3: Troubleshooting PC Hardware
- Apply Troubleshooting Methodology
- Configure BIOS/UEFI
- Troubleshoot Power and Disk Issues
- Troubleshoot System and Display Issues

Lesson 4: Comparing Local Networking Hardware
- Compare Network Types
- Compare Networking Hardware
- Explain Network Cable Types
- Compare Wireless Networking Types

Lesson 5: Configuring Network Addressing and Internet Connections
- Compare Internet Connection Types
- Use Basic TCP/IP Concepts
- Compare Protocols and Ports
- Compare Network Configuration Concepts

Lesson 6: Supporting Network Services
- Summarize Services Provided by Networked Hosts
- Compare Internet and Embedded Appliances
- Troubleshoot Networks

Lesson 7: Summarizing Virtualization and Cloud Concepts
- Summarize Client-Side Virtualization
- Summarize Cloud Concepts

Lesson 8: Supporting Mobile Devices
- Set Up Mobile Devices and Peripherals
- Configure Mobile Device Apps
- Install and Configure Laptop Hardware
- Troubleshoot Mobile Device Issues

Lesson 9: Supporting Print Devices
- Deploy Printer and Multifunction Devices
- Replace Print Device Consumables
- Troubleshoot Print Device Issues

EVALUATION CRITERIA

CRITERIA	Grade total
1 Mid-Term Exam	100
1 Final Exam	100
Quizzes	100
Homework or Assessments	100
Laboratories	100
Total	**500**

*Assignments are always due in class on the day designated. You are responsible for any work lost due to technical problems, etc. Late papers will lose a letter grade for each day that they are late. Any exceptions must be properly documented and discussed in advance for an extension to be arranged.

EDUCATIONAL RESOURCES

Pengelly, J. (2024). The Official CompTIA A + Core 1 Student Guide (Exam 220-1101). Ebook CompTIA. Downers Grove, Illinois

Neo LMS (2024). CompTIA A+ Core 1. *passwordtech.edu20*.

https://passwordtech.edu20.org/

NOTES

- **Reasonable Accommodation:** Any student who requires reasonable accommodation must request them at the beginning of the course or as soon acquire the required knowledge that through the Professor in charge and be notifying the Academic Director.

- **Honesty, fraud, plagiarism:** Dishonesty, fraud, plagiarism and any other inappropriate behavior about the student's academic performance, constitute violations of the catalog of the institution, its Rules of Conduct and Duties of Student. Major infractions, as provided in the catalog may result in the suspension of the institution for a defined time or permanent expulsion as stipulated in the Rules of Conduct and Duties of Student.