CompTIA A+ Cert, Part 03 of 13: PC Components [Deprecated/Replaced]

page 1

Meet the expert: Chuck Nailen has been providing classroom training for more than 16 years. He does training for in departmentsupported CompTIA curriculums, Microsoft curriculums, and Department of State (DoS) proprietary platforms in support of SAIT and DoS programs. He holds many certifications including National Career Readiness Certificate-Gold Level, MCSA, MCT, MCITP, MCTS, and others.

Prerequisites: This course assumes the user has little to experience with computer hardware or software. The user should have viewed the "CompTIA A+ Certification: Best Practices" course before starting on this course.

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Course description: In this course, we will take a look at installing and configuring display devices, as well as how to select a display. Then we will take a look at Standard Device types, along with many different types of devices. Next we will take a look at the different types of expansion cards, and how they are to be configured. Next in this course, we take a look at the different sizes and form factors of motherboards, the expansion slots, RAM slots and the power connections on motherboards. Next we will take a look at the different CPU Sockets, Cache, Operational Characteristics, Selection Factors, Cooling System Types, and Cooling System Selection Factors. We will then take a look at the different Power Supply Specifications, the Power Supply Connections, Power Supply Safety Recommendations, and Selecting the Right Power Supply. Next up we will take a look at the different RAM Modules, RAM Configurations, Types of RAM, Memory Standard Specifications, ECC, Parity, and RAM Characteristics. Then we will take a look at the Capacity of various mediums, RAID Configurations, Internal Storage Device Considerations, and External Storage Device Considerations. Then to close out the course we will look at BIOS Components, Firmware Upgrades, BIOS Configuration Options, BIOS Diagnostics, and BIOS Monitoring Capabilities.

Course outline:

Install & Config Display Device

- Introduction
- Peripheral Components
- Display Device Types
- Settings and Features
- Device Drivers
- Display Device Selection Tips
- Display Device Installation
- Summary

Input Device Types

- Introduction
- Standard Input Device Types
- Biometric Input Device Types
- Specialized Input Device Types
- KVM Switches
- Input Device Selection Tips
- Installation Considerations
- Demo: Input Devices
- Summary

Install & Configure Cards

- Introduction
- Expansion Card Types
- Card Selection Tips
- Card Installation Config

- Expansion Card Configuration
- Demo: Expansion Cards
- Summary

Install & Config Multimedia

- Introduction
- Multimedia Devices
- Common Multimedia Devices
- Multimedia Device Selection
- Multimedia Device Installation
- Multimedia Device Config
 Summary

- Motherboards
- Introduction
- Managing System Components
- Motherboard Sizes/Form
 - Factors
 - Expansion Slots
 - RAM Slots
- Integrated I/O Port Types
- Chipsets
 CMOS Battery
- CINUS Ballery
- Jumpers and DIP SwitchesFront Panel Connectors
- Fan Connectors
- Bus Speeds

- Motherboard Power Connectors
 Summary
- Motherboard Selection Tips
- Motherboard Installation
- Demo: Motherboard
- Summary

CPU & Cooling Systems

- Introduction
- CPU Sockets
 - Intel CPU Socket Types
 - AMD CPU Socket Types
 - Cache
 - Operational Characteristics
 - Operational Characterist
 - CPU Selection Factors
 - Cooling System Types
 - CoolingSystemSelectionFactors
 - Demo: CPU & Cooling System
 - Summary

Select & Install Power Supply • Introduction

- Power Supply Specifications
- Power Supply Connections
- Safety Recommendations
- Select the Right Power Supply
- Demo: Power Supply
- BIOS Memory
 BIOS Components
 Firmware Upgrades
 - BIOS Configuration Options
 - (Continued on page 2)

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RAM Modules

- Introduction
- RAM Modules
- Single-Sided and Double-Sided
- RAM Configurations
- Types of RAM
- ECC
- Parity
- RAM Characteristics
- Summary

Summary

Introduction

Media Capacity

- Introduction
- Media Capacity
- RAID Standards
- Common RAID Types
 Internal Storage Consideration

Configure System BIOS

External Storage Consideration

CompTIA A+ Cert, Part 03 of 13: PC Components [Deprecated/Replaced]

page 2

BIOS Diagnostics
 BIOS Monitoring Capabilities

Summary

