ASM Educational Center (ASM) *Est. 1992*

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CompTIA Strata IT Fundamentals Certification

Course Outline

1. Basic Concepts in Computer Communication
- Two-State Communication
- Numbering Systems
- Units of Information
- Transmission Media
- Analog and Digital Communication

2. What is a Computer?
- Types of Computers
- Upgrading Your Computer
- Computer Components

3. Hardware Components: Inside the Computer Case
- Processing Devices
- Storage Devices
- Other Hardware Components

4. Hardware Components: Outside the Computer Case
- Input Devices
- Output Devices
- Connectors
- Removable Storage Devices
- Redundant Array of Independent Disks (RAID)
- Storage Systems

5. Software Components
- Operating Systems
- Device Drivers
- Applications
- Updating and Upgrading Software
- Installation Issues

6. The Windows Operating System (OS)
- Basic Windows OS Configuration
- Demonstration: Basic Windows Configuration
- File Systems in Windows
- File and Folder Management in Windows

7. Basic Concepts in Networks
- Introduction to Networks
- Types of Networks
- Network Architecture
- Network Topologies

8. Basic Concept in Network Communication
- The Layered Approach to Communication
- The OSI Networking Model
- The Usefulness of Identification
- Naming Devices for Humans
- Communication Protocols

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9. Local Area Networks

- LAN Technologies and Protocols
- LAN Transmission Media
- Internetworking Devices

10. Common LAN and WAN Protocols

- Commonly Used Protocols

11. Wide Area Networks

- WAN Technologies
- WAN Transmission Media
- Internet Browsers
- Cellular Technology
- Satellite Technologies
- WAN Devices

12. Information Security

- CLA Triad
- Authentication
- Encryption
- Firewalls
- Network Attacks
- Access Control Methods

- Security Threats
- Recognize and Resolve Security Breaches

13. Maintaining, Monitoring, and Troubleshooting Your Systems

- Maintaining Your System
- Minimizing Certain Risks on Computers
- Monitoring Your System
- Troubleshooting Your System
- Monitoring and Troubleshooting Networks

14. Future Technologies

- Unified Communications
- Fixed Mobile Convergence
- Cloud Computing
- Other New Technologies

15. Green IT

- Production of IT Equipment
- Use of IT Equipment
- Maintaining IT Equipment
- Disposal of IT Equipment