Wizards Training

Network + Certification Training Course Curriculum
Duration:

Network + Certification Program

Session -1

Getting Started

- ➕ **Introductions**
- ➕ **Course Objectives**
- ➕ **Course Delivery Strategy**
- ➕ **Test Preparation Strategy**

1. Network Basics

- ❖ **Types of Network**
- ❖ **Network Topologies**
- ❖ **Exercises**

2. OSI Reference Model

- ✓ **OSI Layers**
- ✓ **Exercises**

3. Networking Topologies & Connectors

- ➢ **Physical Media**
- ➢ **Wiring Standards**
- ➢ **Installation**
- ➢ **Exercises**

4. Ethernet

- ❖ **Fundamentals of Ethernet**
- ❖ **Ethernet – OSI Layer Relationship**
- ❖ **Exercises**

Training Location: 1033 Sterling Road, Ste. 205, Herndon-VA-20170. USA.
Ph: 703-263-7278 Fax: 703-935-8849 training @wizardsedu.com
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5. Networking Devices

- Types and Functional Purpose
- Specialized Devices
- Network Segmentation
- Exercises

6. IP Addressing

- Introduction & Concepts
- IP Addressing Scheme & Hierarchy
- Broadcast Addresses
- IPv6
- Exercises

7. IP Implementation

- Subnetting
- Troubleshooting
- NAT
- Exercises

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Session – 2

8. IP Routing

- Fundamentals of Routing
- IP Routing Process
- Static & Dynamic Routing
- Exercises

9. Routing Protocols

- ✓ Fundamentals of Routing Protocols
- ✓ Types of Routing Protocols
- ✓ IPv6 Routing Protocols
- ✓ Exercises

10. Switching & VLANs

- ❖ Switching Fundamentals
- ❖ Spanning Tree Protocol
- ❖ VLANs
- ❖ Security
- ❖ Advanced Features of Switching
- ❖ Exercises

11. Wireless Technologies

- ➢ Overview
- ➢ Standards & Comparisons
- ➢ Wireless Network Components
- ➢ Installation & Design Considerations
- ➢ Exercises

12. Network Authentication & Access Control

- **Security Filtering**
- **User & Password Management**
- **User Authentication Methods**
- **Exercises**

13. Network Threats & Mitigation

- ✓ **Types of Threats**
- ✓ **Mitigation Techniques**
- ✓ **Security Policies & Procedures**
- ✓ **Exercises**

14. Physical & Hardware Security

- ❖ **Types of Physical & Software Security Devices**
- ❖ **Firewalls**
- ❖ **Intrusion Detection Systems**
- ❖ **Device Security Considerations**
- ❖ **Exercises**

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Session – 3

15. WANs

- WAN Fundamentals
- WAN Connectivity Options
- WAN Protocols
- Exercises

16. Troubleshooting & Command Line Tools

- ❖ Different Tools & Usage Techniques
- ❖ Exercises

17. Software & Hardware Tools

- ✓ Software Based Scanners
- ✓ Hardware Tools & Usage
- ✓ Exercises

18. Network Troubleshooting

- o Process of Elimination
- o Troubleshooting Steps
- o Exercises

19. Network Management, Maintenance & Optimization

- ❖ Network Management Techniques
- ❖ Monitoring Tools & Processes
- ❖ Optimization Techniques
- ❖ Exercises