

# Indus Training

Course: Network + Certification Training Course Curriculum

Duration: Six Weekends - Sat & Sun: 9.00am – 1.00pm - Approx. 50hrs

## 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

Location: 1033 Sterling Road, Ste. 204, Herndon-VA-20170. USA.

Ph: 703-574-3268 Ext: 7019 / Fax: 703-935-8849 / [training@industraining.net](mailto:training@industraining.net)

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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

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