Networking & TCP/IP Fundamentals

Category: Networking & Security | **Vendor:** Various

Duration: 24.00 hours (3 days) **19.5 CPD Hours** **Rating:** ⭐ 4.6 (5,878 reviews)

Course Information

Delivery Format: Instructor Led - Online

Course Overview

Introduction to Data Communication

- Overview
- Basic Concepts
- Networking Terminology
- Media Types

LAN Basics

- LAN, MAN and WAN
- LAN Topologies
- Access Methods and Protocols
- Network Models
- Ethernet Media Types

OSI Reference Model

- Overview
- OSI Layers

Networking Devices

- Layer 1
- Layer 2
- Layer 3
- Layer 4 and Upper Layers

TCP/IP Suite

- TCP/IP Overview
- Transport Layer
- Establishing a TCP connection

TCP/IP Internet Layer

- Internet Layer Protocols
- IP Networking Addressing
- IP Subnetting and Calculation
- Routing Basics
- Routing Protocols

LAN Design Issues

- Redundant Topologies
- Extension and Flexibility
- Security Overview

WAN Internetworking Overview

- WAN Communication terms and devices
- WAN Service Types
- WAN Technologies

Cisco Internetworking Product Overview

Networking Knowledge and Further Education

About This Course

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Cisco Internetworking Product Overview

Networking Knowledge and Further Education

Who Should Attend

- Network operators, administrators, network planners, and technical support staff
- CCNA Candidates

Prerequisites & Entry Requirements

General Prerequisites:

Basic Computer literacy

Learning Outcomes

Upon successful completion of this course, participants will be able to:

This course, developed by Fast Lane, is tailored for network beginners interested in the challenging and exciting world of network technologies. Course topics include essential technologies, structures, functions, and data transmission methods in modern LANs and WANs. Hands-on labs offer participants the opportunity to build a simple network from scratch, and then observe network behavior with a protocol analyzer.

Detailed Course Outline

LAN Basics

Standard Models

Devices and Media

Switching

Basic IP Routing

Ports and Services

Network Architecture

Improving LANs

Advanced Routing

Security

Certifications

Skills You Will Learn:

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Frequently Asked Questions

Q: What delivery options are available for Networking & TCP/IP Fundamentals?

We offer multiple delivery formats:

- Live Instructor-Led Classroom Online (Virtual/Live Online)
- Traditional Instructor-Led Classroom Training (ILT)
- On-site delivery at your offices anywhere in United Kingdom
- Private dedicated courses customized for your team

Q: How many CPD hours does this course provide?

The 3-day Networking & TCP/IP Fundamentals course provides up to 19.5 CPD hours of structured learning. CPD certificates can be provided upon request.

Q: What is the duration of the Networking & TCP/IP Fundamentals training?

The training takes place over 3 day(s), with each day lasting approximately 24.00 hours including breaks for lunch and refreshments.

Q: Do you provide corporate training for Networking & TCP/IP Fundamentals?

Yes, we provide corporate training, dedicated training, and closed classes for Networking & TCP/IP Fundamentals. Training can take place anywhere in United Kingdom including London, Manchester, Birmingham, Edinburgh, or live online allowing teams from across United Kingdom or internationally to attend.

Q: What related terms do people search for?

Popular related searches include: Networking & TCP/IP Fundamentals, Networking Basics, NWF

Q: Why choose Nexus Human for Networking & TCP/IP Fundamentals?

Nexus Human is recognized as one of the leading training providers. Our trainers have won multiple awards including:

- Small Firms Best Trainer Award
- National Training Partner of the Year (Ireland) - Multiple Years
- Global Top 30 Instructor Awards (2012, 2019, 2021)
- Tech Excellence Award Nominations
- Learning Performance Institute (LPI) External Training Provider Sponsor 2024

Q: Are there any discount codes available?

Yes! Use discount code **PENPAL5** when booking your Networking & TCP/IP Fundamentals training. Please note that only one discount code can be used per booking and cannot be combined with other special offers.

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