Troubleshooting TCP/IP Fundamentals

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

Duration: 16.00 hours (2 days) **13.0 CPD Hours** **Rating:** ⭐ 4.6 (5,878 reviews)

Course Information

Delivery Format: Instructor Led - Online

Course Overview

In this course participants learn to identify, correct, and avoid problems in a TCP/IP network. Participants will use a protocol analyser.

About This Course

TCP/IP Troubleshooting Overview

Monitoring

- Application Metering
- Network Management Systems
- Baselining and Trend Analysis
- Broadcasts
- Response Time
- Bandwidth and Throughput
- Routing

Troubleshooting-Tools

- Cable Tester
- Field Analyser
- Protocol Analyser
- RFC 1147
- Ping
- ICMP
- Documentation

Basic Protocol Analysis

- Protocol Analyser Types
- Monitor versus Capture Mode
- Analysis Strategies
- Interpreting the Displays
- Filter Techniques

Troubleshooting the different OSI Layers

- Network Interface Layer: Cabling, Network Interface Card, Frame-Types, Broadcast Level, Bridge Configuration, Hubs/Repeaters
- Internetwork Layer: Router Configuration, ARPs, Tunneling
- Host-to-Host (Transport) Layer
- Application Layer

Who Should Attend

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

Prerequisites & Entry Requirements

General Prerequisites:

Networking & TCP/IP Fundamentals (NWF)

Detailed Course Outline

Introduction to Troubleshooting

Basic PC Configuration

Troubleshooting Tools

Displaying Information on Cisco & Juniper Devices

TCP/IP Overview

Troubleshooting Methods 1

Troubleshooting Methods 2

Frequently Asked Questions

Q: What delivery options are available for Troubleshooting 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 2-day Troubleshooting TCP/IP Fundamentals course provides up to 13.0 CPD hours of structured learning. CPD certificates can be provided upon request.

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

The training takes place over 2 day(s), with each day lasting approximately 16.00 hours including breaks for lunch and refreshments.

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

Yes, we provide corporate training, dedicated training, and closed classes for Troubleshooting 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: Troubleshooting TCP/IP Fundamentals, Networking Basics, TTCP

Q: Why choose Nexus Human for Troubleshooting 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 Troubleshooting TCP/IP Fundamentals training. Please note that only one discount code can be used per booking and cannot be combined with other special offers.

Nexus Human

Professional Training & Development

Email: info@nexushuman.com

Website: www.nexushuman.com

Phone: +353 1 889 8700 (Ireland) | +44 20 8142 8961 (UK)

© 2026 Nexus Human. All rights reserved. This brochure was generated on 19/10/2026.