Packet Analysis Power Workshop (Wireshark)

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

Duration: 40.00 hours (5 days) **32.5 CPD Hours** **Rating:** ⭐ 4.6 (5,878 reviews)

Course Information

Delivery Format: Instructor Led - Online

Course Overview

During this 5 day instructor led training course, delegates will receive a comprehensive introduction into the features, functions and the usage of the Wireshark Analyser and will learn methods and techniques about monitoring, analysis and troubleshooting of their networks from the packet level. This course will also focus on the detailed analysis and troubleshooting of typical network protocols and applications with specific focus on switched Ethernet, TCP/IP networks and TCP/IP based applications.

About This Course

During this 5 day instructor led training course, delegates will receive a comprehensive introduction into the features, functions and the usage of the Wireshark Analyser and will learn methods and techniques about monitoring, analysis and troubleshooting of their networks from the packet level. This course will also focus on the detailed analysis and troubleshooting of typical network protocols and applications with specific focus on switched Ethernet, TCP/IP networks and TCP/IP based applications.

Who Should Attend

This course is aimed at network administrators, network managers and all technical staff who are responsible for planning, implementing, and ensuring high performance operation of their data networks.

Prerequisites & Entry Requirements

General Prerequisites:

Delegates are required to attend the following course or have equivalent knowledge:

- Networking & TCP/IP Fundamentals (NWF)

Detailed Course Outline

Features, functions and basic operation of Wireshark Analyzer

- Introduction and operation of Wireshark
- Live Capture and Live Capture settings
- Display options and basic interpretation
- Working with Display Filters and Capture Filters
- File Input and Output

Advanced features of Wireshark Analyzer

- Preferences and user profiles
- Name resolution
- Reconstructing user data – Protocol reassembly
- Packet colorization

Methodology and techniques of network analysis

- What is packet analysis?
- Steps and techniques for analyzing traffic
- Analysing Switched Ethernet - Tapping into the network
- Capturing wireless network traffic
- Measuring network delay and response time
- Measuring network throughput and overhead

Statistics and Baselining

- Baselining of networks and applications

- Wireshark statistics

Analysing networks and applications

- Typical network related problems

- Application types and typical application related problems

- "Is it the network or the application?" – Fault isolation

- Analysing and reconstructing voice traffic

Switched Ethernet analysis

- Spanning Tree operation and Spanning Tree analysis

- Analysing VLANs, VLAN-Tagging

TCP/IP analysis of the network layer

- IP addressing

- Typical IP scenarios

- IP options

- ICMP, ARP and DHCP

TCP/IP analysis of the transport layer

- TCP functions

- Session Setup, Data Transfer and Session Teardown

- Window Mechanism and Window optimization

- TCP options (SACK, Window Scaling) and TCP timers

- UDP functions

Analysing TCP/IP with Wireshark

- Wireshark preferences for advanced TCP/IP analysis
- Typical TCP/IP related problems
- Wireshark Expert Info messages and their meanings

TCP/IP applications

- HTTP
- FTP
- DNS
- SSL

Frequently Asked Questions

Q: What delivery options are available for Packet Analysis Power Workshop (Wireshark)?

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 5-day Packet Analysis Power Workshop (Wireshark) course provides up to 32.5 CPD hours of structured learning. CPD certificates can be provided upon request.

Q: What is the duration of the Packet Analysis Power Workshop (Wireshark) training?

The training takes place over 5 day(s), with each day lasting approximately 40.00 hours including breaks for lunch and refreshments.

Q: Do you provide corporate training for Packet Analysis Power Workshop (Wireshark)?

Yes, we provide corporate training, dedicated training, and closed classes for Packet Analysis Power Workshop (Wireshark). 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: Packet Analysis Power Workshop (Wireshark), Packet Analysis, PAPW

Q: Why choose Nexus Human for Packet Analysis Power Workshop (Wireshark)?

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 Packet Analysis Power Workshop (Wireshark) 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 XXX XXXX (Ireland) | +44 20 XXXX XXXX (UK)