

Essential DHCP for engineers

A 1 day **Hands on** training course



Description

Almost all businesses use DHCP. This course builds on delegates existing IP knowledge and focuses on IP Address management using DHCP. Also covered is the role of DHCP in plug and play environments.



Key outcomes

By the end of the course delegates will be able to:

- ✓ Explain how DHCP works.
- ✓ Configure DHCP servers.
- ✓ Troubleshoot DHCP.



Training approach

This structured course uses Instructor Led Training to provide the best possible learning experience. Small class sizes ensure students benefit from our engaging and interactive style of teaching with delegates encouraged to ask questions throughout the course. Quizzes follow each major section allowing checking of learning. Hands on sessions are used throughout to allow delegates to consolidate their new skills.



Details

Who will benefit?

Anyone working with TCP/IP.

Prerequisites

TCP/IP foundation for engineers

Duration: 1 day

Overall rating:



Generic training



Generic training compliments product specific courses covering the complete picture of all relevant devices including the protocols "on the wire".

"Friendly environment with expert teaching that teaches the why before the how."
G.C. Fasthosts

Small class sizes



We limit our maximum class size to 8 delegates; often we have less than this. This ensures optimal interactivity between delegates and instructor.

"Excellent course. The small class size was a great benefit..."
M.B. IBM

Hands On training



The majority of our courses use hands on sessions to reinforce the theory.

"Not many courses have practice added to it. Normally just the theoretical stuff is covered."
J.W. Vodafone

Our courseware



We write our own courses; courseware does not just consist of slides and our slides are diagrams not bullet point text.

"Comprehensive materials that made the course easy to follow and will be used as a reference point."
V.B. Rockwell Collins

Customise your course



Please contact us if you would like a course to be customised to meet your specific requirements. Have the course your way.

"I was very impressed by the combination of practical and theory. Very informative. Friendly approachable environment, lots of hands on."
S.R. Qinetiq

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Course content

Introduction

What is DHCP?, IP configuration: Address, mask, default gateway, DNS. History of DHCP: RARP, BOOTP. Hands on: Client configuration, releasing and renewing.

DHCP servers

Installation. Base configuration: Scope. Lease period. DHCP options. Hands on: Server setup, Impact of lease times. Server monitoring.

How DHCP works

Client states. Obtaining, renewing leases. DHCP messages: DISCOVER, OFFER, REQUEST, NAK, ACK, DECLINE, RELEASE, INFORM. Hands on: Troubleshooting DHCP using Wireshark.

DHCP architecture

DHCP relay agents. Server platforms, resilience, DHCP fail over, split scopes. Dynamic DNS and DHCP. Hands on: DDNS, routers, Troubleshooting.

What our customers say

"Absolutely brilliant, very knowledgeable and helpful trainer would recommend to teach anyone. Kept me interested 100% of the time which is very impressive as this does not happen often, if at all!"

O. B. Network Rail

"The best technical course I've been on!"

L. W. Fujitsu Telecoms Europe

"Very well thought out and structured course. Would recommend 100%. Lots of equipment, good quality."

A.R. Unipart

"Course content is interesting. Relevant to current systems and presented well."

S.S-T. Arqiva

Step back

Essential IP addressing and subnetting

Essential DHCP for engineers

Step forward

Advanced TCP/IP ?

Definitive IP routing for engineers