

Concise Cisco routers for engineers

A 3 day **Hands on** training course



Description

A fast paced practical hands on introduction to Cisco routers concentrating on basic product knowledge needed for the real world. Starts with the basics of routing through configuring static routes, RIP, OSPF, and EIGRP ending with access lists. Hands on sessions follow all the major chapters with a major practical at the end to reinforce all that was learnt in the course.



Key outcomes

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

- ✓ Use the Cisco setup script.
- ✓ Use the Cisco command line.
- ✓ Perform basic troubleshooting.
- ✓ Configure
 - Interfaces
 - RIP, IGRP, OSPF, EIGRP
- ✓ Perform housekeeping tasks such as:
 - Save and load configurations.
 - Upgrade the IOS, recover lost passwords.



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 who will be working with Cisco routers.

Prerequisites

TCP/IP foundation for engineers

Duration: 3 days

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

Basics of routing

What are routers? Network protocols, Routing protocols.

The Cisco routers

Router models, The IOS, DRAM, SRAM, NVRAM, Flash, ROM and boot flash.

Getting started

Accessing the router, installing a Cisco, using the setup script.

The command line interface

User and privilege modes, online help show, debug, basic troubleshooting.

Configuring Ciscos

The configuration editor, Global, major and sub commands, enable, secret and other passwords, telnet.

Miscellaneous exercises

Buffered logging, web access, CDP...

Subnetting

IP addressing rules. The need for subnetting, subnet masks, Calculating network numbers.

Configuring Interfaces

Basics, Ethernet, Serial lines, PPP, DCE, loopback interfaces.

Static routes

Why use static routes? Configuring static routes, default routes.

Configuring RIP and IGRP

How they work, configuration, troubleshooting.

OSPF

Configuration and troubleshooting.

EIGRP

Configuration and troubleshooting.

Housekeeping

Configuration management, offline editing and TFTP usage. Cisco boot sequence, IOS upgrades. Bypassing Cisco passwords.

Access lists

What are access lists? General rules, basic and extended IP access lists.

Putting it all together

A series of exercises based around, installs, adds, moves, changes, upgrades and 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

TCP/IP foundation for engineers

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Step forward

Definitive IP routing for engineers

Total BGP for engineers