

Concise Cisco switches for engineers

A 2 day **Hands on** training course



Description

A hands on course covering the product specifics of Cisco switches. Installation, configuration, maintenance and troubleshooting are all covered in a practical oriented way. VLANs often take up a large part of the course. The course covers all interfaces but concentrates on using the command line interface. Delegates are, however, free to use the web based interface in all exercises.



Key outcomes

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

- ✓ Install Cisco switches.
- ✓ Use the command line interface and the web based interface to manage Cisco switches.
- ✓ Configure and troubleshoot Cisco switches.
- ✓ Perform software upgrades and maintain configurations using TFTP.



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 Cisco switches. Particularly aimed at engineers and technicians supporting Cisco switches.

Prerequisites

None.

Duration: 2 days

Customer 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

Ethernet review

Single segment Ethernet, CSMA/CD, Broadcast domains, collision domains. Hubs, Extending the LAN. Hands on: Hub based Ethernet.

Cisco switches

What are switches, frame forwarding and filtering, the forwarding database. Hands on: Switched based Ethernet.

Configuring Cisco switches

Accessing the switch, installing the switch, The CLI, connecting PCs using the switch. Hands on: Configuring Cisco switches.

The command line interface

User and privilege modes, online help, show, basic troubleshooting. The configuration editor, Global, major and sub commands, enable, secret and other passwords. Hands on: Simple troubleshooting using the CLI.

Port configuration

Speed, duplex, security, trunking. Hands on: Port trunking.

Spanning Tree Protocol

Spanning Tree, Loops, effect, root bridges, bridge port states, STP reconfiguration. RSTP and variants. Hands on: STP.

VLANS

What are VLANs, configuring VLANs, access ports and trunks, 802.1Q, inter VLAN routing. Hands on: Access ports, trunks, layer 3 switching.

Housekeeping

Configuration management, software management, password recovery. Hands on: TFTP.

Managing interconnection devices

SNMP, RMON, RMON II.

Troubleshooting

LEDs, CDP, logging, Layer 1, layer 2, layer 3. Hands on: Fixing things.

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

Introduction to Data comms & networking

Concise Cisco switches for engineers

Step forward

TCP/IP foundation for engineers

Concise Cisco routers for engineers