

<p><b>Cisco CCNA</b></p> <p>Length: 5 days</p> <p>Price: £1,395 + vat</p>	<p>This comprehensive 5-day course prepares delegates to pass the 640-802 Cisco Certified Network Associate (CCNA) exam.</p> <p>Training is hands on, using live Cisco routers and switches. The course is led by a highly experienced CCNP qualified instructor.</p>
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### Course Objectives

On completion of this course delegates will be prepared to sit the 640-802 CCNA exam and will have the skills to:

- Install and configure Cisco switches and routers in multiprotocol networks using LAN and WAN interfaces
- Provide Level 1 troubleshooting service
- Improve network performance and security

### Course Content:

Each day of training is divided into sessions:

- **0900 -1030** Briefing relating to the following practical session.
- **1045-1230** AM practical session as listed
- **1330-1500** Briefing relating to the following practical session.
- **1515-1700** PM practical session as listed
- Last 45 minutes – test to consolidate learning

### MONDAY

#### **AM - Basic and Advanced router configuration**

This session will familiarise delegates with:

- Physical ports, layout and pin out of all devices and cables in the Pod Network diagram for the course
- The memory structure and the use of those different areas of memory.
- The show commands
- The different command line prompts and the function of the modes they refer to and the commands to enter and exit those modes.
- How to give the router a name.
- Configuring an interface's IP address.
- Setting up a banner and Message Of The Day.
- Enable Telnet access.
- Associate a routers name with its IP address, (PING the name).
- Add a Description to an interface

#### **PM – CDP, TELNET, TFTP**

This session will familiarise delegates with:

- How to find out detailed information about neighbouring devices using Cisco Discovery Protocol.
- How to setup, Suspend and Show active Telnet sessions with Ctrl-Shift-6 X and show commands
- Use a TFTP server on one of the PCs to backup your running configuration and the version of IOS on your router.
- Use Wireshark to monitor protocol activity

### TUESDAY

#### **AM - RIP, IGRP**

This session will familiarise delegates with:

- Configuring RIP v1 then IGRP on all interfaces
- Use the Show commands to debug and fault find the RIP installation.
- Verify inter Pod connectivity with ping.
- Use clear ip route to clear and relearn a routing table, this is an aide to troubleshooting routing problems
- Use debug ip rip to see periodic updates
- Use Wireshark to monitor protocol activity

#### **PM - EIGRP, OSPF**

This session will familiarise delegates with:

- Configure EIGRP across all Pods
- Configure single area OSPF across all Pods
- Display neighbors, interfaces running ospf, routing table.
- Verify inter pod connectivity using PING.
- Configure multi area ospf across all pods
- Use Wireshark to monitor protocol activity

## **WEDNESDAY**

### **AM - 2950, switch configuration**

This session will familiarise delegates with:

- How to move between modes, give the switch a name
- How to reset a switch to factory default
- Assigning IP address and default gateway
- Permanently assign MAC address to port
- Configure port security and sticky learning of MAC address

### **PM - 2950, VLANs, Trunking**

This session will familiarise delegates with:

- Setting up VLANs on both switches, connect to PCs and Routers test by PING
- Setting up VTP domain, check correct configuration with show vtp status
- Setting up a Trunk line between the switches, check with show interface fa x/x switchport

## **THURSDAY**

### **AM - IP Access lists, NAT/PAT**

This session will familiarise delegates with:

- Filtering traffic using access control lists
- Setting up a standard access control list, test with ping
- Setting up an extended access control list, test with ping and telnet
- Setting up static NAT, Dynamic NAT test with Telnet

## **Course Prerequisites**

This is an intensive programme. Delegates should have a good understanding of networking devices and fundamentals including TCP/IP before attending.

If you are unsure if you have the required prerequisites for the course please call us on 01273 622272 and one of our training managers will be happy to advise you.

### **PM - PPP & CHAP, ISDN BRI & PRI**

This session will familiarise delegates with:

- Setup PPP with Chap authentication on a serial interface
- Configure ISDN BRI-BRI using Dial-on-Demand
- Configure ISDN BRI-BRI using Dialler Profiles

## **FRIDAY**

### **AM - Frame Relay**

This session will familiarise delegates with:

- Setting up a point-to-point Frame Relay connection
- Configure Encapsulation, lmi type and map IP address to DLCI
- Test with ping and show commands

### **PM - Questions & Answers**

- Recap any points covered in the previous week
- Address any practical/hands on questions
- Summary and Close