



Professional Training & Global Knowledge CCNA Bootcamp

Fee: €2,595

“Professional Training, in conjunction with Global Knowledge, Europe’s leading Cisco Learning Partner, are pleased to announce the running of the Cisco CCNA Bootcamp in Cork as well as ongoing dates in Dublin”

CCNA FAST TRACK PROGRAMME

The data networking market only continues to grow. As more and more people become dependent upon data infrastructures, the requirements to build, configure, maintain and upgrade data and converging voice

networks simply increases. The need for highly-trained network professionals will always be a requirement as companies expand their operations. This not only prepares new network administrators for the tasks they will face in the real world, it also gets them their CCNA certification.

Prior to course commencement

Self-paced eLearning material for Cisco INTRO Course (40-47 hrs of training content)

4 Cisco eLabs (4 hrs of training content)

On course commencement:

5 day instructor led course

The days will run much longer than a typical ICND course due to the amount of additional exam preparation work that is covered.

What you'll learn

- Install & Configure Cisco Routers & Switches in Multiprotocol Networks
- Identify Components and Functions of the OSI Model
- Configure Basic Operation of Cisco IOS Software
- Configure a Router and Switch from Command Line Interface
- Use System Files to Learn About Neighboring Devices
- Configure the Catalyst 1900 Switch
- Extend Switched Networks with Virtual LANs (VLANs)
- Interconnect Networks Using TCP/IP
- Determine IP Routes with RIP and IGRP
- Configure IP Access Lists
- Complete an ISDN BRI Call Connect to Frame Relay Services
- Configure Serial Connections to WAN Service Providers

Who needs to attend

The CCNA Fast Track Programme is for those who have a background in data networking and are looking to achieve the first level of Cisco certification, the CCNA. This course is also for those who have not passed the INTRO exam (640-821) but wish to achieve CCNA Certification quickly.

professional.ie
training & consulting

CORK-(021) 4319010 DUBLIN-(01) 6627700 LIMERICK-(061) 311982

Website: www.professional.ie E Mail: info@professional.ie





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Detailed outline

1. Operating and Configuring Cisco IOS Devices

- Operating Cisco IOS Software
- Starting a Switch
- Starting a Router
- Configuring a Router

2. Managing Your Network Environment

- Discovering Neighbors on the Network
- Getting Information About Remote Devices
- Router Startup and Configuration Management
- Managing Cisco IOS Devices

3. Configuring Catalyst Switch Operations

- Basic Layer 2 Switching and Bridging Functions
- Redundant Topology Review
- Spanning Tree Protocol Overview
- Configuring a Catalyst Switch

4. Extending Switched Networks with VLANs

- VLAN Operation Overview
- Configuring VLANs

5. Determining IP Routes

- Routing Overview
- Distance Vector Routing
- Link State and Balanced Hybrid Routing
- Enabling RIP
- Enabling IGRP
- Enabling EIGRP
- Enabling OSPF
- Variable Length Subnet Masks

6. Managing IP Traffic with Access Lists

- Access Lists and Their Applications
- Configuring IP Access Lists
- Scaling the Network with NAT and PAT

7. Establishing Serial Point-to-Point Connections

- Wide Area Networking Review
- Configuring Serial Point-to-Point Encapsulation

8. Establishing Frame Relay Connections

- Frame Relay Overview
- Configuring Frame Relay

9. Completing ISDN Calls

- Configuring ISDN BRI and PRI
- Configuring Dial-on-Demand Routing

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Hands-On Labs

Lab 1: Initial Switch Setup

Configure the classroom PCs and switches with a basic IP configuration via the switch menu systems and HTTP interface.

Lab 2: Initial Router Configuration Using Setup

Complete the classroom network by configuring the classroom routers with a basic IP and RIP configuration via the router utility, Setup.

Lab 3: Manual Configuration of the Router

Perform additional configurations to the router that are not available through the Setup utility.

Lab 4: Router Examination

Verify the various configurations that have been applied thus far.

Lab 5: Network Discovery with CDP

Discover information about directly connected Cisco neighbour devices.

Lab 6: Remote Access via Telnet

Access other Cisco devices and learn how to remotely manage them.

Lab 7: Using a TFTP Server

Copy configuration files into and out of the router using TFTP.

Lab 8: Switch Examination

Examine various aspects of the Catalyst switches used in the classroom.

Lab 9: Configure VLANs

Configure and test various VLANs in a controlled environment.

Lab 10: Configure Trunks, VTP and STP

Configure switch interfaces to carry multiple VLANs. Examine how VTP propagates VLAN information and how STP breaks switching loops.

Lab 11: Network Verification

Examine how the routers interact with each other across the classroom network.

Lab 12: IGRP

Change the classroom network from the RIP routing protocol to IGRP.

Lab 13: EIGRP

Change the classroom network from the IGRP routing protocol to EIGRP.

Lab 14: OSPF

Change the classroom network from the EIGRP routing protocol to OSPF.

Lab 15: Standard IP Access Lists

Configure standard IP access lists to block network traffic and control telnet into the routers.

Lab 16: PPP and CHAP

Change the router serial ports from HDLC to PPP using the CHAP authentication protocol.

Lab 17: Frame Relay

Change the router serial ports from PPP to Frame Relay, and configure two virtual circuits across the classroom network.

Lab 18: ISDN and CHAP

Place ISDN calls from the classroom routers to send data.



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Prerequisites

The participant should have good networking experience and a familiarity with commonly used networking terms and topologies, but do not require any Cisco technology experience.

It is critical that all delegates have studied the Cisco Self-paced e-learning content that is made available prior to course commencement.

In particular they must understand the Open System Interconnect (OSI) reference model, Binary and hexadecimal numbering IP addressing and subnetting.

Skills Check available:

<http://db.globalknowledge.com/test/setDir.asp>

Exams/Certifications

This course is designed for students planning to take Exam 840-801.
Please note the exam fee is not included in the course cost.

Professional Training Solutions Ltd.

CORK – DUBLIN – LIMERICK

Tel: (021) 4319010 Fax: (021) 4319013

Tel: (01) 6627700 Fax: (01) 6627711

E-mail : info@professional.ie

Website : www.professional.ie

professional.ie
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