

## ICND (Part 1)

This course provides the information needed for CCENT certification using live equipment in practicals to reinforce theory. Combined with ICND part 2 this course prepares delegates for CCNA certification.



*Experts in Networking*

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ICND (Part 1) focuses on providing the skills and knowledge necessary to install, operate, and troubleshoot a small branch office networks including configuring a switch, a router, and connecting to a WAN and implementing network security.

- **Live equipment used in practicals**
- **12 months post course support**
- **All exam Topics covered**
- **All delegates have their own switch and router**

### Course Pre-Requisites

Delegates are required to meet the following prerequisites:

- There are no pre-requisites for this course

Course	Course Objectives	Content
<p><b>ICND (Part 1)</b> This course forms part of the following Cisco certifications:</p> <p>CCENT CCNA</p> <p>Duration: 4 days</p> <p>Certification Required topics are covered for the Cisco exam</p> <p><u>640-822 ICND1</u></p> <p>Location Slough Client Site</p>	<p>Upon completion of this course, the delegate will be able to:</p> <ul style="list-style-type: none"> <li>• Describe how networks function, identifying major components, function of network components and the Open System Interconnection (OSI) reference model</li> <li>• Using the host-to-host packet delivery process, describe issues related to increasing traffic on an Ethernet LAN and identify switched LAN technology solutions to Ethernet networking issues</li> <li>• Describe the reasons for extending the reach of a LAN and the methods that can be used with a focus on RF wireless access</li> <li>• Describe the reasons for connecting networks with routers and how routed networks transmit data through networks using TCP/IP</li> <li>• Describe the function of Wide Area Networks (WANs), the major devices of WANs, and configure PPP encapsulation, static and dynamic routing, PAT and RIP routing</li> <li>• Use the command-line interface to discover neighbours on the network and managing the router's startup and configuration</li> </ul>	<ul style="list-style-type: none"> <li>• Understanding both OSI and TCP/IP models</li> <li>• Understanding Shared Ethernet, modern Switched networks and surrounding issues</li> <li>• Explore the packet delivery process using network Analysers</li> <li>• Use Common Network Applications</li> <li>• Foundation Configuration of both Cisco Switches and Routers</li> <li>• Subnetting both on and off Octet subnet masks</li> <li>• Configure both IP static and Dynamic Routing</li> <li>• Utilise Cisco's SDM to configure the router for both DHCP and NAT</li> <li>• Understanding WAN technologies and enable an Internet Connection</li> <li>• Managing the Cisco IOS file System</li> <li>• Troubleshooting tools (ipconfig, ping, CDP, tracert, show and debug)</li> <li>• Understanding and Exploring Wireless (WLAN) Configuration and Security</li> </ul>