



## **Foundation Skills Level 1 (ICND1)**

The ICND1 course is the foundation course for any student starting a networking education. In this comprehensive 5-day Authorized Cisco course, students will develop a practical understanding of the operation of modern TCP/IP networks built with Cisco hardware. They will learn the commands and techniques used to troubleshoot host connections, interact with Cisco switches and routers, back up and restore configuration files, and manage network equipment.

Students who attend this course will learn:

- How networks function
- Network components and their functions
- Open Systems Interconnection (OSI) reference model
- Binary, decimal, and hexadecimal numbering
- Switching operations and theory
- Host-to-Host packet delivery process
- TCP/IP network addressing and routing
- IP subnetting
- Providing Local Area Network (LAN), Wide Area Network (WAN), and remote access services
- Advanced network theory, including Virtual Private Networks (VPN), Content Delivery Networks (CDN), Intranets and extranets, and wireless networking
- Introduction to Cisco Internet Operating System (IOS)
- Initial configuration of Cisco Catalyst Switches and Routers
- Network discovery and management using Cisco Discovery Protocol (CDP), telnet, and Trivial FTP (TFTP).

Cisco has also introduced a new entry level certification, Cisco Certified Entry Technician (CCENT) which can be obtained by passing the ICND1 exam. This proposal does not include the supply of exam vouchers.

