

CONRAD SOFTWARE SOLUTIONS

CCNA

Module 1-Networking Basics

Networking mathematics, terminology and models
Networking media such as copper, optical and wireless
Testing and cabling LANs and WANs
Ethernet operation and 10/100/1000/10G versions of Ethernet
Ethernet Switching
IP addressing and subnetting
IP, TCP, UDP and application layer protocols

Module 2-Router and Routing Basics

Routers and their roles in WANs
Cisco IOS
Router configuration
Router file management
RIP,IGRP,EIGRP and OSPF routing protocols
Router troubleshooting
Access control lists

Module 3-Switching Basics and Intermediate Routing

Command-line interface configuration of switches
Ethernet switching
Virtual LANs (VLANs)
Spanning Tree Protocol (STP)
Rapid Spanning Tree Protocol (RSTP)
VLAN Trunking Protocol (VTP)

Module 4-WAN Technologies

Advanced IP addressing techniques
Network Address Translation (NAT)
Port Address Translation (PAT)
Dynamic Host Configuration Protocol (DHCP)
WAN Technology and Terminology
Point-to-Point Protocol (PPP)
Integrated Services Digital Network (ISDN)
Frame Relay
Network management