مركز الوقت للتدريب
Time Training Center

CISCO CERTIFIED NETWORK ASSOCIATE (CCNA) COURSE

Introduction

The CISCO Certified Network Associate (CCNA) course provides comprehensive training on core networking concepts and practical skills required to install, configure, and troubleshoot Cisco-based networks. Designed for IT professionals and aspiring network engineers, this course builds a strong foundation in network fundamentals, IP connectivity, security basics, and automation. With the growing demand for skilled networking professionals, CCNA certification serves as a valuable credential for career advancement in the IT and networking industry.

Learning Objectives

- Explain network fundamentals and protocols
- Configure routers, switches, and network devices
- Troubleshoot common network issues
- Implement basic network security measures
- Use IP addressing and subnetting effectively
- Understand automation and programmability in networks

Course Details

Mode of Training	Classroom or Online
Duration	5 Days

Who Should Attend

- Aspiring network engineers and administrators
- IT professionals pursuing CISCO certification
- Technical support staff working with networks
- Students in IT or computer science fields

Certificate(s)

Participants who complete all requirements and pass the **Competence Validation Exam** will receive a **Certificate of Completion and Competence** issued by **Time Training Center**. This certification affirms both the successful completion of the course and the demonstrated proficiency in the essential skills and knowledge relevant to the respective field or professional role.

Course Outline

Module 1: Network Fundamentals

- Introduction to networking concepts
- OSI and TCP/IP models
- Types of networks (LAN, WAN, WLAN)
- Network components and devices
- Basic IP addressing and subnetting

Module 2: Network Access

- Switching concepts and operations
- VLANs and trunking
- Spanning Tree Protocol (STP)
- Wireless LAN concepts and configuration
- Access control and port security

Module 3: IP Connectivity

- Routing concepts and protocols (static, dynamic)
- IPv4 and IPv6 routing
- OSPF configuration and troubleshooting
- First-hop redundancy protocols (FHRP)
- Packet forwarding and routing table analysis

Module 4: IP Services

- DHCP, NAT, and DNS configuration
- Network Time Protocol (NTP)
- SNMP and syslog
- Quality of Service (QoS) fundamentals
- Device management and backup

Module 5: Security, Automation & Programmability

- Security fundamentals and best practices
- Access control lists (ACLs)
- Device hardening techniques
- Introduction to network automation
- Controller-based networking and SDN basics

Methodology

We employ a comprehensive and applied learning strategy, integrating theory with real-world implementation:

- ❖ **Conceptual Learning**: Expert-led sessions on catalytic theory and engineering principles
- ❖ **Interactive Workshops**: Group exercises, presentations, and technical discussion forums
- ❖ **Case-Based Learning**: Industry-specific examples and troubleshooting scenarios
- ❖ **Technology Integration**: Digital tools, simulations, and catalyst modeling applications
- ❖ **Assessment**: Pre-tests, post-tests, and Competence Validation Exams for Certified courses to ensure knowledge transfer and skills validation

Note: Instructors may adjust the training approach to fit technical requirements or participant engagement levels.

Instructors

This course is delivered through instructor-led lectures supported by interactive discussions to reinforce conceptual understanding. Learners will engage in scenario-based problem-solving to apply networking concepts in real-world contexts. Activities include guided configuration tasks, structured troubleshooting exercises, and group reviews of typical network design challenges. The methodology ensures participants can confidently handle essential network operations using CISCO equipment within simulated environments. Detailed trainer profiles will be shared upon request.

About Time Training Center

Time Training Center is a leading professional training institute in Abu Dhabi that provides students and professionals with quality education and skill development programs. Time Training Center is accredited by the Abu Dhabi Center for Technical Vocational Education & Training (ACTVET) with a specialization in Computer and Management Training programs and certified by QA QC with ISO 9001:2015.

Operating in Abu Dhabi for over 3 decades, Time Training Center has established brand value as a high-quality Management & Technical Training Center in Abu Dhabi. We have also secured strong loyalty from corporate companies and associations with our holistic and practical teaching approach.

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