

# Certificate Course in CISCO Enterprise Networking

## Course Objective

This course is intended for those interested in the Planning, Implementing, Verifying and Troubleshooting Local and Wide-area enterprise networks and work collaboratively with specialists on advanced Cisco networking solutions. It will prepare the student to: plan, implement, verify and troubleshoot Cisco networking products,

This course would help the candidate to prepare for Cisco global certification exams CCNA and CCNP also

## Course Outcomes

On completion of this course the participants will be able to:

- Implement, monitor, and maintain routing and switching services in an enterprise campus network.
- Plan, configure, and verify the implementation of complex enterprise
- LAN and WAN routing solutions
- Implement IPv6, EIGRP, BGP, and OSPF in an enterprise network
- Implement the secure integration of VLANs, WLANs, voice, and video into campus networks.
- Plan, configure, and verify the implementation of complex enterprise switching solutions.
- Plan and execute regular network maintenance to monitor
- Maintain complex enterprise routed and switched IP networks
- Implement the secure integration of VLANs, WLANs, voice, and video into campus networks.
- Plan, configure, and verify the implementation of complex enterprise switching solutions.
- Plan and execute regular network maintenance to monitor
- Maintain complex enterprise routed and switched IP networks

## Target Audience

This course is designed for individuals and anyone needing a solid foundation for understanding the Basic network concepts, identifying the type's network, categories, Transmission basic, topologies, protocols and devices

## Prerequisites

Post Graduates / Engineers / Diploma holders / Graduates in Computer Science, Electronics, Telecommunications, Instrumentation or equivalent, even Graduates in Arts & Commerce with basic Knowledge of CCNA-level networking concepts and skills, knowledge and skills needed to plan, implement, secure, maintain, and troubleshoot converged enterprise networks. This experience-oriented courses that employ industry-relevant instructional approaches to prepare Participants for professional-level jobs

## Teaching Methodology

This course is based on theoretical lessons and delivered in a Classroom atmosphere.

**Duration : 12 Weeks** (5 days a week , 6 - 8 hours per day)

**Batch 1** – 09-10-2017 to 30-12-2017

**Batch 2** – 03-01-2018 to 28-03-2018

**Batch 3** – 26-03-2018 to 16-06-2018

## Course Outline

### ■ Network Essentials

- Open Source Interconnection Model (OSI )
- Local Area & Wide Area Networks
- TCP / IP Protocols,
- IP Addressing,
- Ethernet Networking

### ■ Cisco Certified Network Associate Track

- Internetworking & Internet Protocols
- IP Sub netting and Variable Length Subnet Masks
- Introduction to the Cisco IOS
- IP Routing & EIGRP and OSPF
- Layer2 Switching & Virtual LANs
- Managing a Cisco Inter-network
- Managing Traffic with Access Lists,
- Wide Area Network Protocols

### ■ Cisco Certified Network Professional (Routing & Switching) Track

- Implementing Cisco IP Routing (CCNP ROUTE)
- Implementing Cisco IP Switched Networks (CCNP SWITCH)
- Troubleshooting and Maintaining Cisco IP Networks (CCNP TSHOOT)

- **Case study:** UTL has implemented Six State Wide Area Networks and e-governance projects in various states of India. Overview of couple of these complex networks will be given as case studies to have a perfect understanding of the technologies learn.