INFOSOFT IT SOLUTIONS

Training | Projects | Placements

Revathi Apartments, Ameerpet, 1st Floor, Opposite Annapurna Block,

Infosoft It solutions, Software Training & Development Institute, **9059683947|9182540872**

Cisco CCIE Enterprise Infrastructure

Network Infrastructure

- **Technologies**

    o Spanning Tree Protocol (STP), Rapid Spanning Tree Protocol (RSTP), Multiple Spanning Tree Protocol (MSTP)

    o VLANs, Trunking, EtherChannel

    o Frame Relay, PPP

- **Technologies**

    o IPv4 and IPv6 addressing

    o OSPFv2/v3, IS-IS, EIGRP, BGP

    o Redistribution, summarization, filtering

- **Infrastructure Security**

    o Access Control Lists (ACLs)

    o DHCP snooping, Dynamic ARP Inspection (DAI), IP Source Guard

    o VLAN ACLs (VACLs), Router ACLs (RACLs)

- **Infrastructure Services**

    o DNS, DHCP, NTP

    o SNMP, NetFlow

Virtualization

- **Overlay Protocols**
    - VXLAN, OTV, LISP
- **Virtual Switching**
    - Cisco Nexus 1000V, Nexus 9000v

Network Assurance, Monitoring, and Management

- **Device Monitoring**
    - SNMP, IP SLA, EEM
- **Network Management**
    - NetFlow, Syslog, RESTCONF
- **Quality of Service (QoS)**
    - Classification, marking, policing, shaping
    - Congestion management

Automation

- **Programmability**
    - Network APIs (RESTCONF, NETCONF)
    - Python scripting
- **SDN Concepts**
    - Cisco ACI, Cisco DNA Center

Security

- **Security Architectures**
    - TrustSec, MACsec
- **Security Services**
    - AAA, TACACS+, RADIUS

- **Firewall Technologies**
  - ASA, Firepower

Network Design

- **Enterprise Campus Design**
  - Hierarchical network design
  - High availability, scalability
- **WAN Topologies and Design**
  - MPLS, DMVPN, SD-WAN

Evolving Technologies

- **Cloud**
  - Cloud services models (IaaS, PaaS, SaaS)
  - Cloud deployment models (public, private, hybrid)
- **IoT**
  - IoT networking, protocols
- **Network Programmability**
  - DevOps practices, automation tools