AARAV TECH SOLUTIONS

CCNA/CCNP TRAINING

Duration : 4 Month

Mode : Online

Classes : Weekdays

Eligibility : Graduation

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CCNA (CISCO CERTIFIED NETWORK ASSOCIATE) SYLLABUS

Network Fundamentals

OSI and TCP/IP models • IPv4 and IPv6 addressing
Network topologies and types (LAN, WAN, WLAN, etc.)
Switching and routing concepts
Network device roles (routers, switches, firewalls, access points)
Network media and cables (copper, fiber optics)

Network Access

- VLANs and trunking
- EtherChannel
- WLAN concepts
- Access point setup
- Wired and wireless LAN components
- Switching technologies (STP, RSTP)

IP Connectivity

- Routing tables and static/dynamic routing
- IPv4 and IPv6 routing
- Inter-VLAN routing
- OSPF (single area)
- Routing protocol characteristics and metrics
- Routing Protocols: EIGRP, RIP (for foundational understanding)

IP Services

- NAT and PAT
- DHCP (v4 and v6)
- NTP
- SNMP
- Syslog
- FHRP concepts (HSRP, VRRP, GLBP)

Security Fundamentals

- Security concepts
- VPNs
- Layer 2 security features
- Access control lists (ACLs)
- Wireless security protocols

Automation and Programmability

- Controller-based networking
- Software-defined networking (SDN)
- REST APIs
- Configuration management tools (Puppet, Chef, Ansible)
- Basic Python scripting for network automation

CCNP (CISCO CERTIFIED NETWORK PROFESSIONAL) SYLLABUS

Architecture

- Enterprise Network Architecture Models (3-Tier, Spine-Leaf)
- Network Assurance (DNA, SD-Access, SD-WAN)
- High Availability Techniques
- Virtualization and Cloud Concepts
- Cloud Network Architectures (Hybrid Cloud, Multi-Cloud)

Infrastructure

- Layer 2 Technologies (STP, EtherChannel, FHRPs)
- Layer 3 Technologies (OSPF, EIGRP, BGP)
- IP Services (DHCP, DNS, NAT, SNMP, QoS)
- WAN Technologies (MPLS, DMVPN, PPP, BFD)
- IPv6 Deployment and Configuration

Core Exam: ENCOR (350-401)

Network Assurance

- Monitoring Tools (NetFlow, SPAN, SNMP)
- Network Troubleshooting (Layer 2/3 Issues, IP Services)
- Network Maintenance Techniques (Backup, Restoration)

Security

- Infrastructure Security (Access Control, Port Security)
- Secure Routing and Switching (ACLs, Secure Control Plane)
- VPN Technologies (IPsec, DMVPN, GETVPN)
- Network Security with AAA (TACACS+ , RADIUS)
- Advanced Threat Protection (IPS/IDS)

Automation

- Automation Tools (Ansible, Puppet, Chef)
- Programmability with Python
- APIs and Controller-Based Networking
- Network Device Programmability (NETCONF, RESTCONF, YANG)
- CI/CD for Network Automation (Integration with DevOps tools)

Course Features

- 4 Months of Live Training
- 100% Placement Assistance
- Life Time Access of Recording Session
- Highly Experienced & Certified Trainer
- Access to our Premium Study Material
- Access to our Handwritten Notes
- 24/7 Lab Support
- Real-Time Scenario Configuration and Troubleshooting
- Soft Skill Training
- Complete Interview Preparation
- Resume Building
- Course Completion Certificate

THANK YOU