

Details Course Outlines

Module-01

Basic Knowledge of TCP/IP

- ✓ Introduction to Transmission Media
- ✓ Ethernet framing
- ✓ IP addressing
- ✓ ICMP protocol
- ✓ ARP protocol
- ✓ Transport layer protocol
- ✓ Data forwarding Scenario

Module-02

Introduction to the VRP

- ✓ VRP Foundation
- ✓ Navigating the CLI
- ✓ File System Navigation and Management
- ✓ VRP Operating system Image management

Module-03

Introduction to the Ethernet Switching

- ✓ Introduction to this chapter
- ✓ Establishing a Single Switched Network
- ✓ Spanning Tree Protocol
- ✓ Rapid Spanning Tree Protocol

Module-04

Introduction to the IP Unicast Routing

- ✓ Introduction to this chapter
- ✓ Basic Knowledge of IP Routing
- ✓ IP Static Route
- ✓ Link State Routing with OSPF

Module-05

Introduction to the basic IP Service

- ✓ Introduction to this chapter
- ✓ DHCP Protocol Principles
- ✓ FTP Protocol Principles
- ✓ Telnet Protocol Principles

Module-06

Advanced switching technologies

- ✓ Introduction to this chapter
- ✓ Link aggregation
- ✓ VLAN Principle
- ✓ VLAN Routing

Module-07

Introduction to WAN

- ✓ Introduction to this chapter
- ✓ Principle and Configuration of HDLC and PPP
- ✓ Principle and Configuration of PPPoE

Module-08

Introduction to Access Control

- ✓ Network address translation
- ✓ Access control list
- ✓ AAA
- ✓ Securing Data with IPsec VPN
- ✓ Generic Routing Encapsulation

Module-09

Introduction to Network Management

- ✓ Introduction to this chapter
- ✓ Simple Network Management Protocol

Module-10

Introducing IPv6 Networks

- ✓ Introduction to this chapter
- ✓ Introducing IPv6 Networks
- ✓ IPv6 Routing Technologies
- ✓ IPv6 Application Service - DHCPv6

Module-11

Basic knowledge of MPLS and SR

- ✓ Introduction to this chapter
- ✓ MPLS basic principle
- ✓ Segment Routing basic principle