Implementing Enterprise Switching Network (IESN) V1.0 - HCDP

COURSE DETAILS

Course Code:	**IESN**
Current Version:	**1.0**
Delivery Type:	Instructor-led
Duration:	5 days
Maximum Class Size:	14
Associated Certification(s):	None

PREREQUISITES

- Be familiar with IPv4 class-based IP addresses, classless IP addresses, and IP subnetting.
- Know the Ethernet technology and basic working principles and configuration of Ethernet switches.
- Be familiar with routing principles and static routing.
- Know the basic principles and configuration of a certain dynamic routing protocol.

COURSE OBJECTIVES

After the completion of this program, participants will be able to:

- Describe the working principles of VLAN, GVRP, STP, RSTP, and MSTP.
- Configure VRP-based VLANs, GVRP, STP, RSTP, and MSTP.
- Describe how to apply VLAN, GVRP Technologies to a switching network for user isolation and transparent service transmission.
- Describe how to apply STP, RSTP, MSTP to an access network to avoid loops.
- Describe the principles of MPLS and BGP MPLS VPN, and MP-BGP.
- Configure VRP-based BGP MPLS VPN.
- Configure single-domain BGP MPLS VPNs in a large-scale IP network and enable private network users to access the Internet.
- Select proper Huawei switch equipment to construct various switching networks.

WHO SHOULD ATTEND

This program is intended for those who are to take the HCDP-IESN certification exam and those who hope to grasp advanced knowledge of the working principles of Ethernet switches, features of Huawei middle-range and high-end switches, access technologies, use of MPLS and MPLS VPN technologies to construct a large-scale switching network, and maintenance of such a network.