HCIA-Access

Duration: 5 Days Course Code: HCIA-PON

Overview:

The course introduces SDH Principles, MSTP System Overview, MSTP Protection Schemes, Service Configuration of MSTP, Ethernet Principles, Ethernet Service Overview, WDM Principles and OTN Protocols.

Target Audience:

- Personnel who are going to take HCIA-Transmission exam
- Personnel who expect to learn about basic optical transmission principles and Huawei SDH equipment operation

Objectives:

- On completion of this program, the participants will be able to:
- Describe SDH working principle
- Describe WDM working principle
- Describe OTN working principle
- Describe Ethernet working principle
- Describe the basic concept of MPLS and PWE3
- Explain the protection mechanism of MSP/SNCP
- Explain the system structure and features of the OptiX OSN 3500 equipment
- State the main functions of the boards in the OptiX OSN 3500 equipment
- Accomplish the SDH network configuration and monitoring through NMS
- Accomplish the PDH service configuration through NMS
- Accomplish the Ethernet service (EPL/EVPL/EPLAN) configuration through NMS

Prerequisites:

- Having a general knowledge of telecommunications

Content:

SDH Principles(HC)

- SDH Overview
- SDH Frame Structure and Multiplexing
- SDH Overhead and Pointers
- Logical Function Modules
- Networking and Protection

SDH Principles(Manual)(HC)

MSTP System Description(HC)

- System Overview
- Cabinets and Subracks
- Boards
- Hardware Configurations
- Functions and Features

MSTP Protection Principles(HC)

- Linear MSP
- Two-Fiber MSP Rings
- Four-Fiber MSP Rings
- SNCP

Ethernet Technologies(HC)

- Overview of LAN
- Ethernet Principles
- About Ethernet QoS
- Overview of EoS
- Overview of VLAN

Ethernet Technologies(Manual)(HC)

Ethernet Services and Networking Applications(HC)

- Ethernet Terms
- Ethernet Service Types: EPL,EVPL, EPLAN, EVPLAN
- Ethernet Service Configurations

iManager U2000 System Description(HC)

- System Structure and Major Features of U2000
- Major Functions of U2000
- Commissioning Procedures for Single Station

HCIA-Transmission Lab Practice Guide(HC)

- Linear MSP Configurations
- Two-Fiber MSP Rings Configurations
- Four-Fiber MSP Rings
- SNCP Configurations
- Per-NE Service Configurations
- Path-Specific Service Configurations
- Ethernet Service Configurations

WDM Principles(HC)

- Overview of WDM
- Key WDM Technologies
- ITU-T Compliance

WDM Principles(Manual)(HC)

OTN Principles(HC)

- Overview of OTN
- OTN Interface Structure
- Mapping and Multiplexing of OTN
- OTN Overhead
- OTN Trail Layers and Maintenance Signals
- Common OTN Alarms

OTN Principles(Manual)(HC)

- Training Methods
- Lecture, Hands-on exercise

Further Information:

For More information, or to book your course, please call us on 00 971 4 446 4987

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