

HCIA-Access



Online Course

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Course Modules

1. Access Network Evolution and Application

- Overview and Technology Evolution of Wired Communication
- Characteristics, Advantages, and Typical Applications of PON.
- Data Encapsulation Process for PON Access.

2. Network Communication Basics

- Overview of Data Communication.
- TCP/IP protocol stack.
- Ethernet Overview.

3. VLAN Technology Principle

- Causes of VLAN.
- VLAN Division Method.
- VLAN Configuration and Implementation.
- VLAN route.
- Features of VLANs in the Access Network

4. Routing Basics

- IP routing table.
- Route classification.
- Introduction to Static Routes.
- Inter-VLAN routing.

5. PON System Overview

- PON Network Overview.
- Introduction to PON Devices.

6. GPON Principles

- GPON Network Architecture.
- GPON Protocol Analysis.
- Key GPON Technologies.
- Management & Service Provisioning Modes of the GPON System.
- GPON Network Protection

7. XG(S) - PON Principles

- System Overview.
- XG(S)-PON Technical Principles.
- Typical XG(S)-PON Networking.
- Evolution from GPON to XG(S)-PON



8.xDSL Principles and Applications

- xDSL Technology Overview.
- ADSL/ADSL2+ Technical Principles.
- Introduction to the VDSL/VDSL2 Technology.
- GPON MxU HSI Service Configuration Example

9.Vectoring and G.fast Principles

- xDSL Development.
- Vectoring Principle and Application.
- G.fast Principle and Application

10. PPP and PPPoE Protocols

- PPP protocol.
- PPPoE protocol

11. DHCP Principles

- Basic DHCP Principles.
- DHCP Relay Principles.
- DHCP Networking Application.

12. ONU Service Interfaces

- Overview of ONU Deployment Scenarios and Interface Types.
- ONU Interface Description.



13. VLANs and Service Flows of Huawei Access Network

- Access Network VLAN.
- Service Flow.
- Layer 2 Interoperation

14. GPON OLT Basic Operations

- Device Connection.
- Introduction to Command Line Features.
- Basic System Operations.
- Management Environment Configuration.

15. GPON ONU Basic Operations

- ONU Profile Types.
- Process of adding an ONU.
- ONU Service Deployment Example.
- ONU Maintenance and Query

16. GPON Data Service Configuration

- Introduction to Data Services.
- Typical Scenarios and Configurations of Data Services.
- Data Service Maintenance

17. ODN Engineering and Maintenance

- ODN Components.
- ODN Engineering Implementation.
- ODN Test and Acceptance.
- ODN O&M

18. NMS Basics

- NMS Architecture.
- SNMP
- Overview of Huawei Access NMSs.
- eSight.
- iManager U2000.
- NCE (Access Domain)



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