HCIE-Transmission

Zetlan Technologies

Online Course

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HCIE-Transmission

Course Modules

1.Transmission Network Products

- Overview and Application Scenarios of Huawei Transmission
- Cabinets and Subracks
- Common Boards

2.Introduction to iMaster NCE-T

- NCE-T System Overview
- NCE-T Functions and Features
- NCE-T Routine Operations and O&M Management

3.Deploying and Commissioning OTN Devices

- Initiation Configuration
- OSC Commissioning
- Optical Power Commissioning
- NE Commissioning
- Data Backup

4.Transmission Network QoS

- QoS Overview
- QoS Key Technologies
- QoS Application on a Transmission Network
- HQoS

5.MS-OTN Service Configuration

- OTN Service Configuration
- SDH Service Configuration
- EoO Service Configuration
- EoS Service Configuration
- MPLS-TP Service Configuration
- OSU Service Configuration

6.NHP Technology

- Introduction to NHP
- OSU Application Scenarios
- OSU Principles
- OSU Features

7.ASON Principles and Applications

- ASON Overview
- ASON Composition and Protocols
- ASON Functions and Features
- ASON Application Scenarios

8.NG WDM Optical Layer ASON Service Configuration

- Enabling Optical-Layer ASON
- Managing Optical-Layer Control Planes
- Creating Optical-Layer Diamond ASON Services
- Creating Optical-Layer Silver ASON Services
- Creating Optical-Layer Copper ASON Services
- Managing Optical-Layer ASON Services

9.NG WDM Electrical-Layer ASON Service Configuration

- Enabling Electrical-Layer ASON
- Managing Electrical-Layer Control Planes
- Creating Electrical-Layer Diamond ASON Services
- Creating Electrical-Layer Silver ASON Services
- Creating Electrical-Layer Copper ASON Services
- Managing Electrical-Layer ASON Services

10. Optical Doctor System

- Composition and Principles of the OD System
- Networking Design and Configuration Rules of the OD System
- OD System Configuration
- Network O&M Using the OD System

11. Fiber Doctor System

- Introduction to the FD System
- FD System Networking Scenarios
- Functions and Features of the FD System
- Line Fiber Quality Detection Configuration

12. NG WDM Network Planning and Design

- Network Design Elements
- Network Design Process
- DCN Planning

13. SDH-to-OTN Upgrade Solution

- SDH-to-OTN Upgrade Solution Overview
- SDH-to-OTN Upgrade Networking Schemes
- SDH-to-OTN Upgrade Solution Hardware Support
- SDH-to-OTN Upgrade Solution Implementation Process
- SDH-to-OTN Upgrade Cases

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14. OTN Network Reconstruction

- Network Reconstruction Procedure
- Adding a Direction
- Adding an OLA Site
- Reconstructing an OLA Site into an OADM Site
- Reconstructng a Traditional OADM Node into a Colorless Node
- Reconstrctg a Traditional OADM Node into a Directnless Node
- Adding a Single Wavelength for Capacity Expansion
- Expanding the Wavelength Capacity

15. OTN Network Protection Reconstruction

- Optical-Layer Protection Reconstruction
- Electrical-Layer Protection Reconstruction
- Nested Protection

16. Ultra-High Rate and Ultra-High Bandwidth Technologies

- Coherent Transmission Technologies
- Extended C-Band and Super C-Band Technologies

17. ULH Transmission Network Solution

- ULH Transmission Technologies
- ULH Solutions
- Deployment and Maintenance for the ULH Transmission Systm

18. All-Optical Switching Technology

- OXC Enabls Transmission Ntwrks to Evolve to All-Optical Ntwrks
- Huawei OXC Solution
- Application Scenarios of Huawei OXC

19. Turbo WDM Technology

- Turbo WDM Technology
- Turbo WDM Hardware
- Networking and Application

20. Clock Synchronization

- Introduction to the Clock Synchronization Network
- Clock Synchronization Network Technologies

21. DCI Solution

- DCI Driving Forces and Challenges
- Huawei DCI Solution
- DCI Cases

22. Fiber Optic Sensing Solution

- Overview of Fiber Optic Sensing
- Basic Principles of Distributed Fiber Optic Sensing
- Typical Application Scenarios of Distributed Fiber Optic Sensing
- Products

23. Comprehensive Troubleshooting Methods for Transmissn

- Electrical-Layer Alarms
- Optical-Layer Alarms
- Fault Locating Principles and Methods
- Troubleshooting Methods for Different Faults
- Typical Cases

24. Comprehensive Troubleshooting Methods for Transmissn

- Optical Power Faults
- Service Interruptions
- Protection Faults
- Communication Faults
- Bt Error Faults
- Interconnection Faults

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