

## Training Content

### **NG WDM System Introduction**

- Product Overview
- Product Functions and Features
- Hardware Architecture

### **NG WDM Equipment Networking and Application**

- Network Layers and System Architecture
- Site Type
- Site Application Scenarios
- Key Factors in NG WDM Networking

### **NG WDM Optical and Electrical Layer Grooming**

- NG WDM Optical-Layer Grooming
- OADM Types and Features
- ROADM Site Model and Grooming Scheme
- NG WDM Electrical-Layer Grooming

### **NG WDM Common Data Configuration**

- Preparations for the Configuration
- Creating and Configuring NEs and Networks
- Backing Up the NE Database

### **NG WDM Optical Layer Service Configuration**

- Basic Concepts
- Configuration Example
- Create an OCh Trail by Station
- Create an OCh Trail by Board
- Create an OCh Trail by Trail

### **NG WDM Electrical Layer Service Configuration**

- Basic Concepts of the Electrical Layer Grooming
- Configuring Example and Application Scenario
- Configuring WDM Services by Station
- Configuring WDM Services by Trail
- Configuring WDM Services by Service Packages

### **NG WDM System Commissioning**

- Preparations for Commissioning
- Optical Power Commissioning of Non-coherent System
- Optical Power Commissioning of Coherent System
- Optical Power Commissioning of Mixed Transmission System
- System Test

## **NG WDM Protection Topic**

- Equipment Level Protection
- Optical Layer Protection
- Electrical Layer Protection

## **NG WDM System Common Indicator Test**

- Overview of Testing
- Main Channel Feature Test
- OSC Channel Feature Test
- System Test

## **NG WDM Equipment Routine Maintenance**

- Maintenance Operation on Equipment Side
- Maintenance Operation on NMS Side

## **NG WDM Alarm Signal Flow**

- Overview
- Electrical-layer Alarm Analysis
- Optical-layer Alarm Analysis

## **NG WDM System Troubleshooting**

- Troubleshooting Preparation
- Basic Rules and Methods of Fault Locating
- Fault Classification and Handling
- Case Analysis

## **Optical Doctor (OD) System Special Topic**

- Introduction to the OD System
- Principles of the OD System
- Configuration and Usage of the OD System

## **Fiber Doctor (FD) System Special Topic**

- Introduction to the Fiber Doctor System
- Principles of Line Fiber Quality Monitoring
- Configuration and Usages of the Fiber Quality Detection Function

## **NG WDM Packet Technology Introduction**

- IP Overview
- MPLS Technology
- PWE3 Technology
- MPLS-TP Technology

## **MS-OTN Networking and Service Introduction**

- Network Application
- Service Introduction
- Network Protection

## **OptiX OSN 1800V Packet Service Configuration**

- ETH PWE3 Service Introduction
- Basic Parameters Configuration
- ETH PWE3 Service Configuration
- Protection Configuration

## **New Transmission Technologies**

- Super 100G Technology
- New Technologies of Intelligent Network
- New Technologies of Network O&M

## **MSTP Technology Topic - Clock Protection**

- Basic Concepts of Clock Protection
- Standard SSM Clock Protection Analysis
- Extended SSM Clock Protection Analysis

## **MSTP Technology Topic - ECC Maintenance and Pointer Adjustment**

- HWECC Topic
- Pointer Justification Topic

## **MSTP Technology Topic - PCM Technology**

- PCM Technology Introduction
- PCM Principles and Application
- PCM Boards

## **MSTP Board Replacement**

- Board Replacement Overview
- Faulty Board Replacement
- Board Version Replacement
- Board Capacity Upgrade

## **Discrete Service Analysis and Handling**

- Basic Concepts of Discrete Services
- Causes and Handling Methods of Discrete Services
- Procedure for Clearing Discrete Services
- How to Avoid Discrete Services

## **Ethernet Service Common Indicator Test**

- Basic Concepts of Ethernet
- Introduction to the Ethernet Performance Test
- Common Test Indicators for Ethernet Services
- Methods for Testing Common Ethernet Service Indicators

## **MSTP Equipment Troubleshooting**

- Preparing for Fault Locating
- Fault Locating Methods
- Case Analysis

## **ASON Intelligent Optical Network**

- ASON Introduction
- Basic Concepts of ASON
- ASON Feature
- 2M ASON