

Cisco Optical Technology Intermediate (OPT200)

Course Outline

- DWDM Optical Platform Foundation
 - Introducing DWDM Terminology and Components
 - Exploring DWDM Network Topologies
 - Introducing the Management Software and Documentation
 - Using Functional View

- Chassis and Cards
 - Investigating Chassis and Common Equipment
 - Exploring Controller Cards and the OSC
 - Exploring Add/Drop (Multiplexer/Demultiplexer) Cards
 - Exploring Transponder Cards
 - Exploring Muxponder and Crossponder Cards
 - Exploring Client Port Modules
 - Exploring Amplifier Cards
 - Exploring Tunable Dispersion Compensator Cards, PSM Cards, and Passive Auxiliary Modules

- Hardware Installation
 - ONS 15454 MSTP Equipment to Rack Mount
 - 15454 M12 Shelf Installation
 - 15454 M6 Shelf Installation
 - NCS 2000 Series Equipment to Rack Mount
 - NCS 2015 Shelf Installation
 - Intrashelf Fiber Connections

- Node Turn-Up and Circuit Creation
 - Performing Node Turn-Up in Cisco Transport Controller
 - Creating OCHNC Circuits
 - Creating an OCHCC Circuit

- Node and Multishelf Configurations
 - Exploring DWDM Node Configurations
 - Configuring Multishelf Nodes

- SMR-Based Rings
 - SMR-Based ROADM Configurations
 - 4-Degree Mesh Using SMR2
 - Viewing SMR-Based Ring Power Levels

- 10Gb Circuit Protection
 - Exploring 10Gb Circuit Protection Options
 - Investigating Client Protection with Two Signals
 - Configuring Circuit Protection with a Y-Cable
 - Configuring Circuit Protection with Protected Transponders
 - Configuring Circuit Protection with PSMs

- Any Rate Card Configuration
 - Exploring AR MXP/XP Card Features
 - Investigating Card Modes
 - Exploring Mixed Mode Scenarios
 - Provisioning a Cisco Transport Controller AR_XP Example

- Raman Amplifiers
 - Introducing Raman Amplifier Theory of Operation
 - Cabling the RAMAN-CTP and -COP Cards ◦ Connecting Raman Nodes for Communication
 - Examining Installation Requirements
 - Executing the Raman Day 0 Tune Wizard

- Maintenance and Basic Troubleshooting
 - Exploring Network Maintenance Features
 - Exploring Node Maintenance Features
 - Exploring Shelf Maintenance Features
 - Exploring Card Maintenance and Performance Features
 - Upgrading Shelves to Release 10.6.2
 - Installing and Managing Licenses
 - Performing Basic Troubleshooting