

Course Name: Cisco ONS 15454 MSTP Turn Up, Test, Provisioning, and Operation v7.0 (OMSTP)

Course Code: 5671

Course Overview: In this 4-day course, create different dense wavelength division multiplexing (DWDM) topologies using the latest Cisco ONS 15454 multiservice transport platform (MSTP) equipment, and get the background information you need to successfully complete hands-on assignments in the classroom and on the job.

While this is not a network design class, you'll get an introduction to the role MetroPlanner, the Cisco optical network design tool, plays in designing and implementing DWDM networks.

You will also gain the skills you need to successfully create MSTP networks - skills such as fiber cleaning techniques and acceptance testing using an optical power meter, optical spectrum analyzer, and a variable laser generator.

Course Length: 4 days

Who should attend:

- Individuals responsible for day-to-day operations, maintenance, and provisioning of ONS 15454 MSTPs
- Managers, engineers, planners, and installers wanting to broaden their view of the ONS 15454 MSTP capabilities and communicate system needs to others

You will learn:

- Create a MetroPlanner configuration
- Create a point-to-point network
- Create an amplified point-to-point network
- Amplified point-to-point network with an optical add-drop multiplexer (OADM)
- Three-node ring with active and passive OADMs
- Multishelf configuration
- Create reconfigurable optical add/drop multiplexer (ROADM) configuration
- Configure fiber protection
- Create a protected three-node ring using multirate transponder cards
- Install MXP_MR_2.5G and MXP_MR_10DME cards into an existing DWDM topology
- Install Ethernet Connections into an existing DWDM topology
- In this course, you'll explore the major features and functions of the ONS 15454 MSTP system. In addition to the ONS 15454 shelf, the MSTP equipment you'll cover includes:
 - Common control cards
 - Optical service channel cards

- Optical amplifier cards
- Multiplexer and demultiplexer cards
- Optical add/drop multiplexer (OADM) cards
- Transponder, muxponder, and protection cards

Prerequisites:

- Knowledge of SONET or SDH structure and hierarchy, DWDM basics, and how to use optical test equipment

Course Fee: Call for quote

Customizable: No

Course Content:

- ONS 15454 MSTP Product Overview
- DWDM Fundamentals
- Safety
- Optical Fiber
- Fiber Cleaning
- DWDM Test Equipment
- ONS 15454 MSTP Shelf Layout and Components
- ONS 15454 MSTP Documentation
- ONS 15454 MSTP Topologies
- ONS 15454 MSTP Shelf and Card Installation
- ONS 15454 MSTP System Setup
- ONS15454 MSTP MetroPlanner
- Provisionable Patchcords
- ONS 15454 MSTP Node Turn Up Demonstration
- ONS 15454 MSTP Linear Configurations
- ONS 15454 MSTP Node Turn Up
- ONS 15454 MSTP Node Optical Verification
- ONS 15454 MSTP Network Connections
- ONS 15454 MSTP Circuits
- ONS 15454 MSTP Patch Cords and Optical Trail
- ONS 15454 MSTP Linear Amplifier
- ONS 15454 MSTP Amplified OADM
- ONS15454 MSTP Multishelf
- ONS 15454 MSTP Ring
- ONS 15454 MSTP Protection
- ONS 15454 MSTP Muxponder and Transponder Cards
- ONS 15454 MSTP Data Cards