

OPT201 - CISCO NCS 2000 SERIES DEPLOYING 96-CHANNEL 3.0

Course Code: 860041

The Cisco® NCS 2000 Deploying 96-Channel Flex Spectrum course v3.0 is an instructor-led, lab-based, hands-on course offered by Cisco Learning Services. It covers how to plan, configure, and control optical networks using the Cisco Network Convergence System (NCS) 2000 Series Flex Spectrum platform.

In this course, you will design Flex Spectrum networks with multidegree reconfigurable optical add-drop multiplexer (ROADM) multishelf nodes using the Cisco Transport Planner software, learn how to install and turn up the hardware, and use the Transport Planner output to configure an optical network and circuits using the Cisco Transport Controller software. You will learn which components and configurations take advantage of and/or are required for the Flex Spectrum 96-channel feature. Then you will learn how to configure more advanced networks with the colorless, contentionless, and omnidirectional features, and to configure mesh nodes with multifiber pushon (MPO) cross-connects. Finally, you will learn how to use the many tools and features available with Transport Controller to perform maintenance, testing, and basic troubleshooting of your optical network.

This course is worth 24 Continuing Education (CE) Credits

What You'll Learn

After completing the course, you should be familiar with:

- Hardware and components required and used with the Flex Spectrum feature
- Designing optical networks in the Cisco Transport Planner software
- Installing the hardware, including multishelf nodes
- Performing node turn-up and create circuits using the Cisco Transport Controller software
- Configuring optical networks with multidegree ROADM multishelf nodes
- Configuring optical networks with colorless, contentionless, omnidirectional, and MPO cross-connect advanced features
- The features and documentation with Transport Controller to perform maintenance, testing, and basic troubleshooting

Who Needs to Attend

This course is designed for technical professionals who need to know how to deploy a Cisco NCS 2000 Series dense wavelength-division multiplexing (DWDM) network with Flex Spectrum.

The primary audience for this course include:

- Designers
- Systems engineers and implementation staff
- Network operations center personnel
- Technical support personnel who are involved with the deployment, operations, and maintenance of the Cisco NCS 2000 Series
- Channel partners and resellers

Prerequisites

Before taking this training, it is recommended to take the Cisco Optical Technology Foundations (OPTFND) training first (only available in Cisco U. All Access). However, if you have some knowledge of optical fiber networking, single and multimode fibers, and small form-factor pluggables (SFPs), you should already have the necessary skills to complete this training.

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Date created: 12/7/2025 7:42:08 AM

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