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Cisco NCS 2000 Deploying 96-Channel Flex Spectrum (OPT201)

WHERE GREAT TRAINING HAPPENS EVERYDAY!

Cisco NCS 2000 Deploying 96-Channel Flex Spectrum (OPT201)

Course Duration

3 days

Course Price

$2,995.00
30 CLCs

Methods of Delivery

In-Person ILT
Virtual ILT
Onsite ILT

About this Class

The Cisco NCS2000 Deploying 96-Channel Flex Spectrum (OPT201) v3.0 course shows you how to plan, configure, and control optical networks using the Cisco® Network Convergence System (NCS) 2000 series Flex Spectrum platform.
The course teaches you how to design Flex Spectrum networks with multi-degree Reconfigurable Optical Add-Drop Multiplexer (ROADM) multi-shelf nodes using the Cisco Transport Planner (CTP) software.
You'll learn how to:

- Install the Cisco NCS 2000 series hardware
- Configure an optical network and circuits using the Cisco Transport Controller (CTC) software
- Learn which components and configurations take advantage of and/or are required for the Flex Spectrum 96-channel feature
- Configure optical networks with multidegree ROADM multishelf nodes
- Configure optical networks with colorless, contentionless, omnidirectional, and MPO cross-connect advanced features
- Describe and configure the NCS 2000 400-Gbps Xponder line card

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How you will benefit

This class will help you:

- Gain an in-depth understanding of how to install, deploy, and maintain a Cisco Optical Networking Services (ONS) 15454 Multiple Spanning Tree Protocol (MSTP) network
- Practice what you learn through hands-on labs

Why Attend with Current Technologies CLC

- Our Instructors are the top 10% rated by Cisco
- Our Lab has a dedicated 1 Gig Fiber Connection for our Labs
- Our Labs run up to Date Code for all our courses

Who Should Attend

The job roles best suited to the material in this course are:

- 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. 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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Objectives

After taking this course, you should be able to:

- Describe the hardware and components required and used with the Flex Spectrum feature
- Design optical networks in the Cisco Transport Planner software
- Install the hardware, including multishelf nodes
- Perform node turn-up and create circuits using the Cisco Transport Controller software
- Configure optical networks with multidegree ROADM multishelf nodes
- Configure optical networks with colorless, contentionless, omnidirectional, and MPO cross-connect advanced features
- Describe and configure the NCS 2000 400-Gbps Xponder line card
- Add a node to an existing DWDM ring
- Describe the NCS 2000 Troubleshooting Guide
- Use the features and documentation with Transport Controller to perform maintenance, testing, and basic troubleshooting

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Course Outline

Module 1: DWDM and Flex Spectrum Foundation

Module 2: NCS 2000 Chassis and Cards

Module 3: Design ROADM Networks with CTP

Module 4: Hardware Installation and Multishelf

Module 5: Node Turn-Up and Circuit Creation

Module 6: Advanced Feature Networks and Circuits

Module 7: Testing, Maintenance, and Basic Troubleshooting

Module 8: Spectrum Switched Optical Network

Lab Outline

Lab 1: Cisco Transport Controller

Lab 2: Cisco Transport Planner

Lab 3: Adding a Node to Existing DWDM Ring Network

Lab 4: Optical Channel Network Connection (OCHNC) Circuits

Lab 5: Optical Channel Client Connection (OCHCC) Circuits

Lab 6: Colorless Ports and Circuits

Lab 7: Contentionless Circuits

Lab 8: Connection Verification

Lab 9: Performing the Optical Time Domain Reflectometer (OTDR) Test

Lab 10: Maintenance and Performance Monitoring

Lab 11: MSTP Troubleshooting

Lab 12: Configuring the 400XP card