# Cisco Optical Technology Intermediate

**Category:** AI, Data & Analytics | **Vendor:** Cisco

**Duration:** 32.00 hours (4 days) **26.0 CPD Hours** **Rating:** ⭐ 4.6 (5,878 reviews)

## Course Information

**Delivery Format:** Instructor Led - Online

## Course Overview

The Cisco Optical Technology Intermediate (OPT200) v3.0 course is designed to teach you the skills necessary to deploy the Cisco® Optical Networking System (ONS), 15454 Multiservice Transport Platform (MSTP), and Cisco Network Convergence System (NCS) 2000 Series Dense Wavelength-Division Multiplexing (DWDM) networks from installation to protection. Through a combination of lecture and hands-on experience, you will learn installation, configuration, circuit protection, maintenance, and basic troubleshooting using the Cisco Transport Controller for the Cisco ONS 15454 M6 and M12 shelves, and for the Cisco NCS 2016 shelf.

Additionally, in this course you will review DWDM terminology and components, explore available chassis and cards, and discuss hardware installation. You will learn to use the Cisco Transport Controller server software to connect to the nodes, perform network turn-up and circuit creation, and deploy linear and single-module ROADM (SMR) DWDM multishelf topologies. Using this software, you will also configure Raman amplifiers and Any Rate cards, and configure protected and unprotected circuits. The course covers a variety of card options: controllers, transponders, multiplexer-demultiplexer, add/drop, Raman amplifiers, and Cisco Any Rate muxponder cards. You will use the various cards to configure terminal, amplifier, mesh, split, Optical Service Channel (OSC) regenerator, and Reconfigurable Optical Add/Drop Multiplexing (ROADM) nodes. Finally, you will learn how to use many of the tools and features available with the Cisco Transport Controller to perform maintenance, testing, and basic troubleshooting of your optical network.

This course will help you:

- Deploy, maintain, test, and troubleshoot your optical network
- Explain Cisco DWDM platform basics, DWDM network topologies, and the Cisco DWDM network management software
- Expand and deepen your knowledge of optical networks and their maintenance
- Identify the uses of the Cisco Transport Controller
- Describe and utilize various optical network technologies

## About This Course

The Cisco Optical Technology Intermediate (OPT200) v3.0 course is designed to teach you the skills necessary to deploy the Cisco® Optical Networking System (ONS), 15454 Multiservice Transport Platform (MSTP), and Cisco Network Convergence System (NCS) 2000 Series Dense Wavelength-Division Multiplexing (DWDM) networks from installation to protection. Through a combination of lecture and hands-on experience, you will learn installation, configuration, circuit protection, maintenance, and basic troubleshooting using the Cisco Transport Controller for the Cisco ONS 15454 M6 and M12 shelves, and for the Cisco NCS 2016 shelf.

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## Who Should Attend

This course is intended for:

- System engineers
- Technical support personnel
- Channel partners and resellers

## Prerequisites & Entry Requirements

**General Prerequisites:**

Before taking this course, you should have:

- Basic knowledge of optical transport and protocols
- Familiarity with data networking principles

This Cisco recommended course may help you meet these prerequisites:

- Understanding Cisco Service Provider Network Foundations (SPFNDU)

## Learning Outcomes

**Upon successful completion of this course, participants will be able to:**

After taking this course, you should be able to:

- Describe Cisco DWDM platform basics
- Describe DWDM network topologies
- Describe the management software used for managing Cisco DWDM networks
- List the different hardware components of the Cisco ONS and Cisco NCS DWDM systems
- Provision nodes and circuits in a Cisco DWDM network
- Perform node and multishelf configurations
- Implement SMR-based rings
- Provision optical circuit protection mechanisms
- Configure Any Rate cards
- Describe the function of Raman amplifiers
- Perform basic maintenance and troubleshooting of a Cisco DWDM network

## Detailed Course Outline

- DWDM Optical Platform Foundation
- Chassis and Cards
- Hardware Installation
- Node Turn-Up and Circuit Creation
- Node and Multishelf Configurations
- SMR-Based Rings
- 10Gb Circuit Protection
- Any Rate Card Configuration
- Raman Amplifiers
- Maintenance and Basic Troubleshooting

**Skills You Will Learn:**

After taking this course, you should be able to:<br><br><br>- Describe Cisco DWDM platform basics<br>- Describe DWDM network topologies<br>- Describe the management software used for managing Cisco DWDM networks<br>- List the different hardware components of the Cisco ONS and Cisco NCS DWDM systems<br>- Provision nodes and circuits in a Cisco DWDM network<br>- Perform node and multishelf configurations<br>- Implement SMR-based rings<br>- Provision optical circuit protection mechanisms<br>- Configure Any Rate cards<br>- Describe the function of Raman amplifiers<br>- Perform basic maintenance and troubleshooting of a Cisco DWDM network

# Frequently Asked Questions

### Q: What delivery options are available for Cisco Optical Technology Intermediate?

We offer multiple delivery formats:

- Live Instructor-Led Classroom Online (Virtual/Live Online)
- Traditional Instructor-Led Classroom Training (ILT)
- On-site delivery at your offices anywhere in United Kingdom
- Private dedicated courses customized for your team

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### Q: How many CPD hours does this course provide?

The 4-day Cisco Optical Technology Intermediate course provides up to 26.0 CPD hours of structured learning. CPD certificates can be provided upon request.

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### Q: What is the duration of the Cisco Optical Technology Intermediate training?

The training takes place over 4 day(s), with each day lasting approximately 32.00 hours including breaks for lunch and refreshments.

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### Q: Do you provide corporate training for Cisco Optical Technology Intermediate?

Yes, we provide corporate training, dedicated training, and closed classes for Cisco Optical Technology Intermediate. Training can take place anywhere in United Kingdom including London, Manchester, Birmingham, Edinburgh, or live online allowing teams from across United Kingdom or internationally to attend.

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### Q: What related terms do people search for?

Popular related searches include: Cisco Optical Technology Intermediate, Cisco High Touch Delivery Courses, OPT200

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## Q: Why choose Nexus Human for Cisco Optical Technology Intermediate?

Nexus Human is recognized as one of the leading training providers. Our trainers have won multiple awards including:

- Small Firms Best Trainer Award
- National Training Partner of the Year (Ireland) - Multiple Years
- Global Top 30 Instructor Awards (2012, 2019, 2021)
- Tech Excellence Award Nominations
- Learning Performance Institute (LPI) External Training Provider Sponsor 2024

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## Q: Are there any discount codes available?

Yes! Use discount code **PENPAL5** when booking your Cisco Optical Technology Intermediate training. Please note that only one discount code can be used per booking and cannot be combined with other special offers.


**Nexus Human**

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