

# Cisco Optical Technology Advanced v2.0 (OPT300)

**Duration:** 24.00 hours (3 days)

**19.5 CPD Hours**

**Rating:** ★ 4.6 (5,878 reviews)

## Course Information

**Delivery Format:** Other

## Course Overview

The Cisco Optical Technology Advanced (OPT300) v2.0 course gives you the skills you need to deploy advanced features of the Cisco® Optical Networking Services (ONS) 15454 Multiservice Transport Platform (MSTP) and Cisco Network Convergence System (NCS) 2000 Series. In this course you will learn to how to use the Cisco Transport Planner Design Tool to create network topologies and advanced network topologies. You will learn how to use advanced Dense Wavelength Division Multiplexing (DWDM) features such as G.709 encapsulation, generic framing protocol G.7041, Layer 1 circuits, Quality of Service (QoS), crossponder networks using T1 over Ethernet, and encryption.

## About This Course

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# Who Should Attend

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This course is intended for the following technical professionals who need to use advanced features of fiber optics technology:

System installers

System integrators

System administrators

Network administrators

Solutions designers

# Learning Outcomes

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

After taking this course, you should be able to:

Perform the ONS 15454 MSTP node turn-up procedure

Describe first generation mesh topologies

Describe the Optical Channel Network Connection (OCHNC) prerequisite requirements for provisioning circuits in an ONS 15454 MSTP network

Describe the ONS MSTP advanced protocols

Describe the OCHNC circuit provisioning for Single Module (SM) Reconfigurable Optical Add-Drop Multiplexer (ROADM) rings

Describe the Any-Rate Muxponder Crossponder (AR MXP/XP) cards

Describe how the Pseudo Command Line can be used to configure muxponder cards

Identify the advantages G.709 encapsulation brings to optical transponder cards

Install and provision the Any Rate cards

Describe the 100-Gbps and 200-Gbps cards

Describe the NCS 2000 400-Gbps Xponder line card and how it is configured

Describe the SM ROADM (SMR)-based configurations

Describe the 10-Gbps transponder and muxponder cards

List the 10GE\_XP and GE\_XP card options

Describe ingress policing and basic egress queuing strategies, and implement the customer QoS scheme into the ONS 15454 crossponder network

Identify the principles of Ethernet related to the operation of Cisco optical networking products

Configure the 10GE\_XP/XPE and GE\_XP/XPE cards, install Layer 1 circuits, and read the performance counters for Layer 1 Gigabit Ethernet circuits

Turn up an encrypted network and test to ensure that information being passed is secure

Add a node to an existing DWDM ring

Describe problems with interconnecting circuits between rings, the ONS 15454 MSTP 80-channel manual Multiring feature, and hardware components

Describe the ONS 15454 MSTP Troubleshooting Guide

## Additional Course Details

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Nexus Humans Cisco Optical Technology Advanced v2.0 (OPT300) training program is a workshop that presents an invigorating mix of sessions, lessons, and masterclasses meticulously crafted to propel your learning expedition forward.

This immersive bootcamp-style experience boasts interactive lectures, hands-on labs, and collaborative hackathons, all strategically designed to fortify fundamental concepts.

Guided by seasoned coaches, each session offers priceless insights and practical skills crucial for honing your expertise. Whether you're stepping into the realm of professional skills or a seasoned professional, this comprehensive course ensures you're equipped with the knowledge and prowess necessary for success.

While we feel this is the best course for the Cisco Optical Technology Advanced v2.0 (OPT300) course and one of our Top 10 we encourage you to read the course outline to make sure it is the right content for you.

Additionally, private sessions, closed classes or dedicated events are available both live online and at our training centres in Dublin and London, as well as at your offices anywhere in the UK, Ireland or across EMEA.

# Frequently Asked Questions

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## **Q: What delivery options are available for Cisco Optical Technology Advanced v2.0 (OPT300)?**

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 3-day Cisco Optical Technology Advanced v2.0 (OPT300) course provides up to 19.5 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 Advanced v2.0 (OPT300) training?**

The training takes place over 3 day(s), with each day lasting approximately 24.00 hours including breaks for lunch and refreshments.

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## **Q: Do you provide corporate training for Cisco Optical Technology Advanced v2.0 (OPT300)?**

Yes, we provide corporate training, dedicated training, and closed classes for Cisco Optical Technology Advanced v2.0 (OPT300). 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: Why choose Nexus Human for Cisco Optical Technology Advanced v2.0 (OPT300)?

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

## Q: Are there any discount codes available?

Yes! Use discount code **PENPAL5** when booking your Cisco Optical Technology Advanced v2.0 (OPT300) training. Please note that only one discount code can be used per booking and cannot be combined with other special offers.

# Nexus Human

## Professional Training & Development

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