

OPT200

Cisco Optical Technology Intermediate

The Cisco Optical Technology Intermediate (OPT200) 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

Kursinhalt

- Connect to a Cisco ONS 15454 MSTP chassis using Cisco Transport Controller
- Identify node configurations according to card population
- Provision DWDM circuits using the Cisco Transport Controller
- Conduct performance monitoring, alarm verification, and fault isolation
- Provision M12 WSS in linear and M6 SMR nodes in ring topologies
- Understand configuration options for the Any Rate muxponder and crossponder
- Perform Raman amplifier initialization
- Isolate optical network issues

E-Book Sie erhalten die englischen Original-Unterlagen als Cisco E-Book.

Zielgruppe

This course is intended for:

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

Voraussetzungen

Bevor Sie an diesem Kurs teilnehmen, sollten Sie über folgende Kenntnisse verfügen:

- Grundkenntnisse des Optical Transport und der Protokolle
- Vertrautheit mit den Prinzipien von Datennetzwerken

Dieser von Cisco empfohlene Kurs kann Ihnen helfen, diese Voraussetzungen zu erfüllen:

- Understanding Cisco Service Provider Network Fundamentals (SPFNDU)

Dieser Kurs im Web



Alle tagesaktuellen Informationen und Möglichkeiten zur Bestellung finden Sie unter dem folgenden Link: www.experteach.de/go/COTI

Vormerkung

Sie können auf unserer Website einen Platz kostenlos und unverbindlich für 7 Tage reservieren. Dies geht auch telefonisch unter 06074 4868-0.

Garantierte Kurstermine

Für Ihre Planungssicherheit bieten wir stets eine große Auswahl garantierter Kurstermine an.

Ihr Kurs maßgeschneidert

Diesen Kurs können wir für Ihr Projekt exakt an Ihre Anforderungen anpassen.

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Training	Preise zzgl. MwSt.	
Termine in Deutschland	4 Tage	€ 3.595,-
Online Training	4 Tage	€ 3.595,-
Termin/Kursort	Kurssprache Englisch	
21.04.-24.04.25	09.06.-12.06.25	
28.04.-01.05.25	23.06.-26.06.25	
12.05.-15.05.25	21.07.-24.07.25	
12.05.-15.05.25	21.07.-24.07.25	

Stand 13.03.2025



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Course Outline

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Module 2: Shelf and Card Installation
Module 3: Fiber Jumper Installation
Module 4: Linear Configurations
Module 5: Node Turnup
Module 6: Optical Channel Network Connection Circuits
Module 7: Transponder and Optical Channel Client Connection Circuits
Module 8: Multishelf
Module 9: MSTP M6 SMR-Based Rings
Module 10: 10-Gigabit Muxponder and Transponder Cards
Module 11: 10-Gigabit with Y-Cable Protection
Module 12: Alternative 10-Gigabit Protection
Module 13: Any Rate Muxponder and Crossponder
Module 14: Raman Amplifier
Module 15: 40-and 100-Gigabit Transponder and Muxponder
Module 16: Basic Troubleshooting

Lab Outline

Lab 1: System Setup and Login
Lab 2: Node Turnup
Lab 3: Creating Direct Circuits (OCHNC)
Lab 4: Creating Transponder Optical Client Circuits (OCHCC)
Lab 5: Configuring an Amplified SMR Ring
Lab 6: Configuring Direct Circuits in an SMR Ring/Mesh
Lab 7: Installing 10-Gbps Transponder Cards with Y-Cable Protection
Lab 8: Alternate 10-Gigabit Protection (OTU-2 and PSM)
Lab 9: Any Rate Muxponder and Crossponder Options
Lab 10: Raman Amplifier
Lab 11: MSTP Troubleshooting

