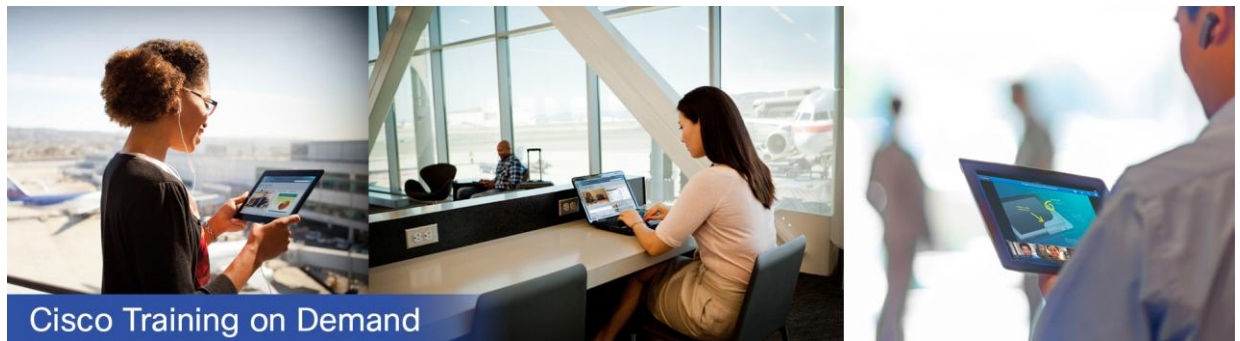


Learning Services

Cisco Fundamentals of Fiber Optics Technology



Overview

Cisco® Fundamentals of Fiber Optics Technology (FFOT) Release 1.0 Version 1 is a Cisco Training on Demand course from Cisco Learning Services. You will gain an understanding of the fundamentals of fiber optics technology. In addition, this course offers an introduction to the Cisco Optical Networking System (ONS) 15454 Multiservice Transport Platform (MSTP) and the Cisco Network Convergence System (NCS) 2000 Series. You will learn fiber-cleaning techniques, optical-networking system safety, dense wavelength division multiplexing (DWDM) fundamentals, and fiber testing with the appropriate equipment.

The course covers the Cisco ONS 15454 MSTP and NCS 2000 Series shelf layout and components, as well as the Cisco ONS 15454 MSTP and NCS product fundamentals. You will learn the three Cisco MSTP shelf types (M12, M6, and M2) and the two Cisco NCS shelf types (NCS 2006, NCS 2002). You will also learn how to use the Cisco ONS 15454 MSTP documentation and the Cisco Transport Controller. The course also covers an instructor-lead Cisco Transport Controller lab demonstration, whereby the instructor will guide you through an introduction to the Cisco ONS 15454 MSTP from Installation to Protection lab. The Cisco Transport Controller lab is a brief introduction to your next course if you desire the skills necessary to deploy a Cisco ONS 15454 MSTP network from installation to protection (FITP).

Interested in purchasing this course in volume at discounts for your company? Contact ctod-sales@cisco.com.

Duration

The Cisco FFOT Cisco Training on Demand course comprises eight modules containing eight video lessons for a total of not more than 10 hours of learning at your own pace.

Target Audience

This course is for technical professionals who require an introduction to fiber optics technology. This course will help professionals who will be involved in installation, deployment, and maintenance of a Cisco ONS 15454 MSTP network.

Objectives

After completing this course, you should be able to:

- Clean optical fiber in a Cisco network
- Identify safety requirements in a Cisco optical network
- Identify DWDM concepts and test equipment
- Identify the Cisco ONS 15454 MSTP shelves and components
- Understand the Cisco ONS 15454 documentation
- Perform Cisco Transport Controller operations

Course Prerequisites

- Basic computing skills
- Some working knowledge of fiber optics

Course Outline

- Module 1: Optical Fiber and Cleaning
- Module 2: Optical Networking System Safety
- Module 3: DWDM Fundamentals
- Module 4: DWDM Test Equipment
- Module 5: Cisco ONS 15454 MSTP Shelf Layout and Components
- Module 6: Cisco ONS 15454 MSTP Product Fundamentals
- Module 7: Cisco ONS 15454 Documentation
- Module 8: Cisco Transport Controller Operations

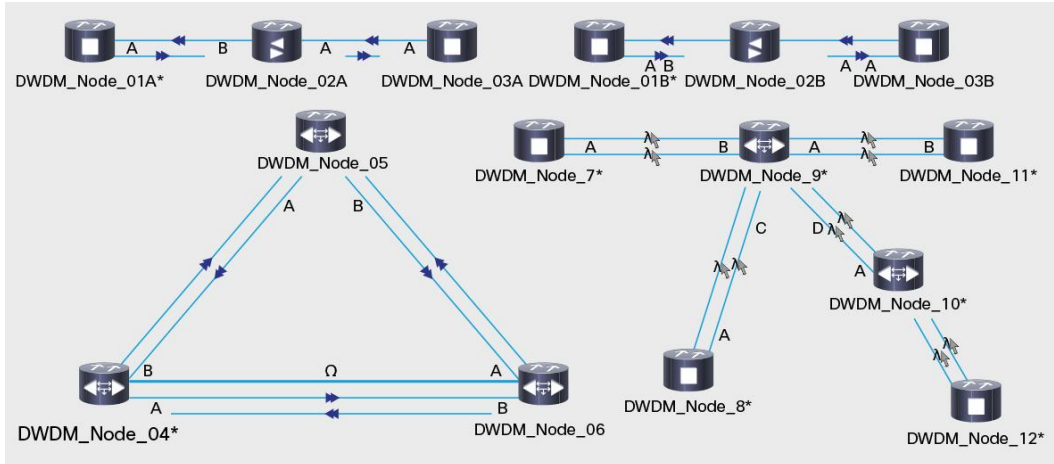
Lab Outline

- Lab: Cisco Transport Controller Lab Demonstration

Lab Topology

A topology of the lab about the basics of the Cisco ONS 15454 MSTP is shown in Figure 1.

Figure 1. Lab Topology of Cisco ONS 15454 MSTP Basics



Americas Headquarters
Cisco Systems, Inc.
San Jose, CA

Asia Pacific Headquarters
Cisco Systems (USA) Pte. Ltd.
Singapore

Europe Headquarters
Cisco Systems International BV Amsterdam,
The Netherlands

Cisco has more than 200 offices worldwide. Addresses, phone numbers, and fax numbers are listed on the Cisco Website at www.cisco.com/go/offices.

Recycling symbol: Cisco and the Cisco logo are trademarks or registered trademarks of Cisco and/or its affiliates in the U.S. and other countries. To view a list of Cisco trademarks, go to this URL: www.cisco.com/go/trademarks. Third party trademarks mentioned are the property of their respective owners. The use of the word partner does not imply a partnership relationship between Cisco and any other company. (1110R)