Overview
The Network Convergence System 5500 Series Router (NCS5500HW) version 1.0 Cisco® Training on Demand course focuses on the Cisco Network Convergence System (NCS) 5500 Series hardware features. You learn about the features and functions of the NCS 5501, NCS 5502, and NCS 5508 routers. Also, you learn how to identify and describe the various types of line cards supported in the NCS 5500 Series routers.

This course provides you with the necessary knowledge to identify and describe the various types of optical interfaces supported in the NCS 5500 Series routers. You learn about environmental monitoring of chassis components, the required power monitoring and control, the Cisco IOS® XR 64-bit architecture, and the Cisco NCS 5500 Series boot process. In addition, you gain necessary knowledge and skills to configure and describe the Cisco IOS XR 64-bit features.

Duration
The NCS5500HW Training on Demand course consists of 2 modules comprising 15 video lessons with 3 hours of video instruction, and 8 hands-on lab exercises.

Target Audience
The primary audience for this course is system engineers and technical support personnel.

Objective
After completing this course, you should be able to:

- List and describe the features and functions of the Cisco NCS5500 Series chassis
- Describe the Cisco IOS XR 64-bit software architecture and features
Course Prerequisites
The knowledge and skills recommended before attending this course are as follows:

- General routing concepts and experience working with command-line interface (CLI)-based network devices

Course Outline
- Module 1: Cisco NCS 5500 Series Hardware
- Module 2: Cisco IOS XR 64-Bit Architecture and Features

Labs Outline
This course contains 8 hands-on virtual lab exercises, powered by Cisco Learning Labs and Cisco IOL (Cisco IOS on Linux).

Topology for all labs in the course:

The labs included in this course are:

- NCS5500HW Lab 1: Identifying Router Hardware from the CLI
- NCS5500HW Lab 2: Identifying Optical Hardware from the CLI
- NCS5500HW Lab 3: Environmental Monitoring from the CLI
- NCS5500HW Lab 4: Observing the NCS 5500 Boot Process
- NCS5500HW Lab 5: Installation of IOS XR Software Packages
- NCS5500HW Lab 6: Configuring Policy-Driven Telemetry
- NCS5500HW Lab 7: Configuring Model-Driven Telemetry
- NCS5500HW Lab 8: Model Driven Programmability

Instructor Bio
Ben Parrish has more than 20 years of experience in the networking field, with over a twelve of those at Cisco in multiple roles, including supporting the Technical Assistance Center (TAC) for escalations and supporting both enterprise and service provider customers within the Advanced Services organization. Since 2015, Ben has been traveling the world teaching full time, focusing on service provider routing technologies and hardware. In addition to holding a Cisco CCDE® certification, Ben has been a Cisco CCIE® in Routing and Switching for over 10 years.
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