Learning@Cisco

Network Convergence System 5000 Series Router

The Network Convergence System 5000 Series Router (NCS5000HW) course\(^1\) is an instructor-led, lab-based, hands-on course offered by Learning@Cisco.

This course focuses on the Cisco Network Convergence System (NCS) 5000 Series hardware features. It covers the features and functions of the NCS 5000 Series chassis, hardware architecture, and boot process and features of the Cisco IOS\(^\circledR\) XR 6.0 software.

**Duration**

Instructor-Led Training (ILT): not offered

Virtual Instructor-Led Training (VILT): 1 day

**Target Audience**

This course is designed for technical professionals who need to learn about the NCS 5000 Series hardware.

Targeted roles include:

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

**Tasks and Features Covered**

- Examining the Cisco NCS 5001, 5002, and 5011 routers
- Working with Cisco IOS XR 6.0
- Zero-touch provisioning
- Network Virtualization (nV) Satellite
- Buffer management and Quality of Service (QoS)

\(^1\) Course content is dynamic and subject to change without notice.
Course Prerequisites

- None

Recommended Prerequisites

Cisco recommends that you have the following prerequisite knowledge and skills:

- Knowledge of general routing concepts
- Experience working with Command-Line Interface (CLI)-based network devices

Course Outline

- Lesson 1: Examining Cisco NCS 5000 Series Hardware
  - The Cisco NCS 5000 Series Chassis
  - Optical Interfaces
  - Architecture and Packet Flow
  - Power and Cooling Systems
- Lesson 2: Examining the Features of Cisco IOS XR 6.0
  - Cisco IOS XR 6.0 Software Architecture
  - Cisco IOS XR 6.0 Operating System Structure
  - Cisco IOS XR 6.0 Package Format
- Lesson 3: Examining the Cisco NCS 5000 Series Boot Process
  - The NCS 5000 Series Boot Process
  - Zero-Touch Provisioning
- Lesson 4: Examining NCS 5000 Additional Features
  - Layer 2 Interfaces
  - nV Satellite
  - Buffer Management
  - Quality of Service (QoS)

Lab Outline

- Lab 1: Identifying Router Hardware using the CLI
- Lab 2: Environment Monitoring using the CLI
- Lab 3: Observing the NCS 5000 Series Boot Process

Lab Topology
Registration Email
For more information about schedules and registration for this course, contact aeskt_registration@cisco.com.

Cisco Capital Financing Helps You Achieve Your Objectives
Cisco Capital® financing can help you acquire the technology you need to achieve your objectives and stay competitive. We can help you reduce Capital Expenditures (CapEx), accelerate your growth, and optimize your investment dollars and ROI. Cisco Capital financing gives you flexibility in acquiring hardware, software, services, and complementary third-party equipment. And there’s just one predictable payment. Cisco Capital financing is available in more than 100 countries. Learn more.

Website Addresses for More Information
For more information, visit the following websites:

- Cisco Learning Services for Cisco products and technologies: https://www.cisco.com/go/cls