# Cisco IOS XR Essentials (IOSXRE) v1.0

**Category:** Networking & Security | **Vendor:** Cisco

**Duration:** 4.00 hours (1 days) **3.3 CPD Hours** **Rating:** ⭐ 4.6 (5,878 reviews)

## Course Information

**Delivery Format:** vILT

## Who Should Attend

Implementing and Administering Cisco Solutions 1.0

### Prerequisites & Entry Requirements

**General Prerequisites:**

Experience working with CLI-based network devices, Knowledge of general routing concepts

# Learning Outcomes

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

Course ObjectivesDescribe Cisco IOS XR Software architectureExplain how to install Cisco IOS XR Software packagesDescribe how to provision network devices by using zero touch provisioningDescribe how to perform initial configurations on a Cisco IOS XR routerRecognize, implement, and manage system security features within Cisco IOS XR Software systems, ensuring the protection of network infrastructure and dataMonitor device performance through CLI and logging servicesDescribe the methods and protocols for establishing timing and synchronization on Cisco IOS XR router platformsDescribe the operation of Cisco IOS XR AAA Software services, task-based security mechanisms and user security policiesConfigure, manage, and troubleshoot Cisco IOS XR Software AAA services in a network environmentRecognize how to implement QoS in various scenarios and environments, including Cisco IOS XR Software and a service provider environmentDefine the Cisco IOS XR implementation requirements for deploying common routing protocols and managing the Routing Information Base, Route Policy, forwarding, and load balancing mechanismsImplement and configure MPLS and describe MPLS label propagation in service provider networksConfigure SNMP in Cisco IOS XR Software environments for optimum performance and efficient management of network resourcesDescribe the programmable features of Cisco IOS XR SoftwareComprehend and implement model-driven telemetry for enhanced network visibility and managementDescribe the application hosting architecture and how to deploy a third-party application on a Cisco IOS XR routerIllustrate how to efficiently monitor processes using process monitoring concepts and tools such as employing the monitor processes command to track and manage system activities , Course ObjectivesDescribe Cisco IOS XR Software architectureExplain how to install Cisco IOS XR Software packagesDescribe how to provision network devices by using zero touch provisioningDescribe how to perform initial configurations on a Cisco IOS XR routerRecognize, implement, and manage system security features within Cisco IOS XR Software systems, ensuring the protection of network infrastructure and dataMonitor device performance through CLI and logging servicesDescribe the methods and protocols for establishing timing and synchronization on Cisco IOS XR router platformsDescribe the operation of Cisco IOS XR AAA Software services, task-based security mechanisms and user security policiesConfigure, manage, and troubleshoot Cisco IOS XR Software AAA services in a network environmentRecognize how to implement QoS in various scenarios and environments, including Cisco IOS XR Software and a service provider environmentDefine the Cisco IOS XR implementation requirements for deploying common routing protocols and managing the Routing Information Base, Route Policy, forwarding, and load balancing mechanismsImplement and configure MPLS and describe MPLS label propagation in service provider networksConfigure SNMP in Cisco IOS XR

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## Detailed Course Outline

Cisco IOS XR Software Fundamentals, Cisco IOS XR Software Fundamentals, Cisco IOS XR Software Fundamentals, Cisco IOS XR Software Installation and Upgrades, Cisco IOS XR Software Installation and Upgrades, Cisco IOS XR Software Installation and Upgrades, Automatic Provisioning, Automatic

Provisioning, Automatic Provisioning, Cisco IOS XR Software CLI Basics, Cisco IOS XR Software CLI Basics, Cisco IOS XR Software CLI Basics, Cisco IOS XR Software System Security, Cisco IOS XR Software System Security, Cisco IOS XR Software System Security, Cisco IOS XR Software Logging Configuration, Cisco IOS XR Software Logging Configuration, Cisco IOS XR Software Logging Configuration, Timing and Synchronization, Timing and Synchronization, Timing and Synchronization, Cisco IOS XR Software AAA Service Fundamentals, Cisco IOS XR Software AAA Service Fundamentals, Cisco IOS XR Software AAA Service Fundamentals, Cisco IOS XR Software AAA Service Implementation, Cisco IOS XR Software AAA Service Implementation, Cisco IOS XR Software AAA Service Implementation, Cisco IOS XR Software Modular QoS, Cisco IOS XR Software Modular QoS, Cisco IOS XR Software Modular QoS, Cisco IOS XR Software Routing Protocol Configuration, Cisco IOS XR Software Routing Protocol Configuration, Cisco IOS XR Software Routing Protocol Configuration, Cisco IOS XR Software MPLS Operation and Implementation, Cisco IOS XR Software MPLS Operation and Implementation, Cisco IOS XR Software MPLS Operation and Implementation, Network Management with SNMP on Cisco IOS XR Software, Network Management with SNMP on Cisco IOS XR Software, Network Management with SNMP on Cisco IOS XR Software, Cisco IOS XR Software Programmability, Cisco IOS XR Software Programmability, Cisco IOS XR Software Programmability, Model-Driven Telemetry, Model-Driven Telemetry, Model-Driven Telemetry, Application Hosting Overview, Application Hosting Overview, Application Hosting Overview, Cisco IOS XR Software Process Monitoring, Cisco IOS XR Software Process Monitoring, Cisco IOS XR Software Process Monitoring, Lab Outline, Lab Outline, Lab Outline, Cisco IOS XR Software Fundamentals , Cisco IOS XR Software Fundamentals , Cisco IOS XR Software Fundamentals , Cisco IOS XR Software Installation and Upgrades , Cisco IOS XR Software Installation and Upgrades , Cisco IOS XR Software Installation and Upgrades , Automatic Provisioning , Automatic Provisioning , Automatic Provisioning , Cisco IOS XR Software CLI Basics , Cisco IOS XR Software CLI Basics , Cisco IOS XR Software CLI Basics , Cisco IOS XR Software System Security , Cisco IOS XR Software System Security , Cisco IOS XR Software System Security , Cisco IOS XR Software Logging Configuration , Cisco IOS XR Software Logging Configuration , Cisco IOS XR Software Logging Configuration , Timing and Synchronization , Timing and Synchronization , Timing and Synchronization , Cisco IOS XR Software AAA Service Fundamentals , Cisco IOS XR Software AAA Service Fundamentals , Cisco IOS XR Software AAA Service Fundamentals , Cisco IOS XR Software AAA Service Implementation , Cisco IOS XR Software AAA Service Implementation , Cisco IOS XR Software AAA Service Implementation , Cisco IOS XR Software Modular QoS , Cisco IOS XR Software Modular QoS , Cisco IOS XR Software Modular QoS ,

Cisco IOS XR Software Routing Protocol Configuration , Cisco IOS XR Software Routing Protocol Configuration , Cisco IOS XR Software Routing Protocol Configuration , Cisco IOS XR Software MPLS Operation and Implementation , Cisco IOS XR Software MPLS Operation and Implementation , Cisco IOS XR Software MPLS Operation and Implementation , Network Management with SNMP on Cisco IOS XR Software , Network Management with SNMP on Cisco IOS XR Software , Network Management with SNMP on Cisco IOS XR Software , Cisco IOS XR Software Programmability , Cisco IOS XR Software Programmability , Cisco IOS XR Software Programmability , Model-Driven Telemetry , Model-Driven Telemetry , Model-Driven Telemetry , Application Hosting Overview , Application Hosting Overview , Application Hosting Overview , Cisco IOS XR Software Process Monitoring, Cisco IOS XR Software Process Monitoring, Cisco IOS XR Software Process Monitoring

# Frequently Asked Questions

### Q: What delivery options are available for Cisco IOS XR Essentials (IOSXRE) v1.0?

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 1-day Cisco IOS XR Essentials (IOSXRE) v1.0 course provides up to 3.3 CPD hours of structured learning. CPD certificates can be provided upon request.

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### Q: What is the duration of the Cisco IOS XR Essentials (IOSXRE) v1.0 training?

The training takes place over 1 day(s), with each day lasting approximately 4.00 hours including breaks for lunch and refreshments.

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### Q: Do you provide corporate training for Cisco IOS XR Essentials (IOSXRE) v1.0?

Yes, we provide corporate training, dedicated training, and closed classes for Cisco IOS XR Essentials (IOSXRE) v1.0. 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: What related terms do people search for?

Popular related searches include: Cisco IOS XR Essentials (IOSXRE) v1.0, Cisco, vILT

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## Q: Why choose Nexus Human for Cisco IOS XR Essentials (IOSXRE) v1.0?

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

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## Q: Are there any discount codes available?

Yes! Use discount code **PENPAL5** when booking your Cisco IOS XR Essentials (IOSXRE) v1.0 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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