Introduction to 802.1X Operations for Cisco Security Professionals

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

Duration: 24.00 hours (3 days) **19.5 CPD Hours**

Rating: ⭐ 4.6 (5,878 reviews)

Course Information

Delivery Format: Instructor Led - Online

Course Overview

The Introduction to 802.1X Operations for Cisco Security Professionals (802.1X) training shows you how to configure and prepare to deploy Cisco® Identity-Based Networking Services (IBNS) solutions based on Cisco Catalyst switches, Cisco 9800 LAN Controllers, and Cisco Meraki deployments. You will learn the fundamentals of the 802.1X protocol and configuration, Cisco IBNS, configuring access for non-supplicant devices, architectural components, and considerations with 802.1X.

This training also earns you 18 Continuing Education (CE) credits toward recertification.

How You'll Benefit

This training will help you:

- Gain in-depth knowledge of 802.1X protocol fundamentals, configuration, and integration within Cisco environments
- Learn to configure 802.1X on Cisco Catalyst switches, Cisco Wireless LAN Controllers, and Meraki devices through real-world labs
- Understand Cisco IBNS operations and how 802.1X functions as a foundational element for secure network access
- Acquire the ability to integrate non-supplicant devices (devices without native 802.1X support) using MAC Authentication Bypass (MAB) and guest services
- Compare and select the most appropriate Extensible Authentication Protocol (EAP) methods for your organization's deployment needs
- Learn best practices for designing 802.1X-enabled networks and troubleshooting IBNS deployments to ensure reliable, secure access

About This Course

The Introduction to 802.1X Operations for Cisco Security Professionals (802.1X) training shows you how to configure and prepare to deploy Cisco® Identity-Based Networking Services (IBNS) solutions based on Cisco Catalyst switches, Cisco 9800 LAN Controllers, and Cisco Meraki deployments. You will learn the fundamentals of the 802.1X protocol and configuration, Cisco IBNS, configuring access for non-supplicant devices, architectural components, and considerations with 802.1X.

This training also earns you 18 Continuing Education (CE) credits toward recertification.

How You'll Benefit

This training will help you:

- Gain in-depth knowledge of 802.1X protocol fundamentals, configuration, and integration within Cisco environments
- Learn to configure 802.1X on Cisco Catalyst switches, Cisco Wireless LAN Controllers, and Meraki devices through real-world labs
- Understand Cisco IBNS operations and how 802.1X functions as a foundational element for secure network access
- Acquire the ability to integrate non-supplicant devices (devices without native 802.1X support) using MAC Authentication Bypass (MAB) and guest services
- Compare and select the most appropriate Extensible Authentication Protocol (EAP) methods for your organization's deployment needs
- Learn best practices for designing 802.1X-enabled networks and troubleshooting IBNS deployments to ensure reliable, secure access

Who Should Attend

- Security Administrators
- Security Consultants
- Network Administrators
- System Engineers
- Technical Support Personnel
- Channel Partners and Resellers

Prerequisites & Entry Requirements

General Prerequisites:

There are no prerequisites for this training. However, the knowledge and skills you are recommended to have before attending this training are:

- Basic routing and switching knowledge

These skills can be found in the following Cisco Learning Offering:

- Implementing and Administering Cisco Solutions (CCNA)

Learning Outcomes

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

- Identify Cisco IBNS operation and how 802.1X functions as part of the IBNS solution
- Compare the different types of EAP authentication to select the best method for a solution deployment
- Configure Cisco Catalyst switches for 802.1X access
- Configure Cisco Wireless LAN Controllers for 802.1X access
- Configure Meraki devices for 802.1X access
- Apply MAB and guest services to integrate devices without direct 802.1X support to the network
- Explain network design considerations and troubleshooting for Cisco IBNS

Detailed Course Outline

- [Introduction to Cisco IBNS
- 802.1X EAP Authentication
- 802.1X on Cisco Catalyst Switches
- 802.1X on Cisco Wireless LAN Controllers
- 802.1X on Meraki Devices
- Network Access for Non-Supplicant Devices
- Design Considerations and Troubleshooting for Cisco IBNS Networks

Skills You Will Learn:

- Identify Cisco IBNS operation and how 802.1X functions as part of the IBNS solution
- Compare the different types of EAP authentication to select the best method for a solution deployment
- Configure Cisco Catalyst switches for 802.1X access
- Configure Cisco Wireless LAN Controllers for 802.1X access
- Configure Meraki devices for 802.1X access
- Apply MAB and guest services to integrate devices without direct 802.1X support to the network
- Explain network design considerations and troubleshooting for Cisco IBNS

Frequently Asked Questions

Q: What delivery options are available for Introduction to 802.1X Operations for Cisco Security Professionals?

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

Q: How many CPD hours does this course provide?

The 3-day Introduction to 802.1X Operations for Cisco Security Professionals course provides up to 19.5 CPD hours of structured learning. CPD certificates can be provided upon request.

Q: What is the duration of the Introduction to 802.1X Operations for Cisco Security Professionals training?

The training takes place over 3 day(s), with each day lasting approximately 24.00 hours including breaks for lunch and refreshments.

Q: Do you provide corporate training for Introduction to 802.1X Operations for Cisco Security Professionals?

Yes, we provide corporate training, dedicated training, and closed classes for Introduction to 802.1X Operations for Cisco Security Professionals. 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.

Q: What related terms do people search for?

Popular related searches include: Introduction to 802.1X Operations for Cisco Security Professionals, Intrusion Prevention, AMP, Firewall, VPN, 802.1X

Q: Why choose Nexus Human for Introduction to 802.1X Operations for Cisco Security Professionals?

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

Q: Are there any discount codes available?

Yes! Use discount code **PENPAL5** when booking your Introduction to 802.1X Operations for Cisco Security Professionals 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

Email: info@nexushuman.com

Website: www.nexushuman.com

Phone: +353 1 889 8700 (Ireland) | +44 20 8142 8961 (UK)

© 2026 Nexus Human. All rights reserved. This brochure was generated on 19/10/2026.