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## Implementing Cisco IOS Network Security

**Duration: 5 Days**    **Course Code: IINS**

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### Overview:

The Implementing Cisco IOS Network Security (IINS) course focuses on the design, implementation, and monitoring of a comprehensive security policy, using Cisco IOS security features and technologies as examples. The course covers security controls of Cisco IOS devices as well as a functional introduction to the Cisco ASA adaptive security appliance. Using instructor-led discussion, lecture, and hands-on lab exercises, this course allows students to perform basic tasks to secure a small branch office network using Cisco IOS security features that are available through web-based GUIs (Cisco Configuration Professional) and the CLI on Cisco routers, switches, and ASA appliances.

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### Target Audience:

This course is designed for: Network Designers Network Administrators Network Engineers Network Managers Systems Engineers

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### Objectives:

- Upon completing this course, the learner will be able to meet these overall objectives;
  - Describe the components of a comprehensive network security policy that can be used to counter threats against IT systems, within the context of a security policy life cycle
  - Develop and implement security countermeasures that are aimed at protecting network elements as part of the network infrastructure
  - Deploy and maintain threat control and containment technologies for perimeter security in small and midsize networks
  - Describe secure connectivity strategies and technologies using VPNs, as well as configure site-to-site and remote-access VPNs using Cisco IOS features
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### Prerequisites:

The knowledge and skills that a learner must have before attending this course are as follows:

- Working knowledge of the Windows operating system
- Working knowledge of Cisco IOS networking and concepts
- CCENT, CCNA Routing and Switching or any Cisco CCIE Certification

To gain the prerequisite skills and knowledge, Cisco strongly recommends the knowledge of the following courses:

- Interconnecting Cisco Networking Devices Part 1 (ICND1)
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### Testing and Certification

Recommended as preparation for:

- 640-554 - Implementing Cisco IOS Network Security IINS is the course required for the **Cisco Certified Network Associate (CCNA) Security** Certification.
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### Follow-on-Courses:

- Securing Networks with Cisco Routers and Switches (SECURE)
- Deploying Cisco ASA Firewall Solutions (FIREWALL)
- Deploying Cisco ASA VPN Solutions (VPN)
- Implementing Cisco Intrusion Prevention System (IPS)

The above four courses belong to the **Cisco Certified Network Professional (CCNP) Security** Certification.

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## Content:

### Networking Security Fundamentals

- Introducing Networking Security Concepts
- Understanding Security Policies Using a Life-Cycle Approach
- Building a Security Strategy for Borderless Networks

### Protecting the Network Infrastructure

- Introducing Cisco Network Foundation Protection
- Protecting the Network Infrastructure Using Cisco Configuration Professional
- Securing the Management Plane on Cisco IOS Devices
- Configuring AAA on Cisco IOS Devices Using Cisco Secure ACS
- Securing the Data Plane on Cisco Catalyst Switches
- Securing the Data Plane in IPv6 Environments

### Threat Control and Containment

- Planning a Threat Control Strategy
- Implementing Access Control Lists for Threat Mitigation
- Understanding Firewall Fundamentals
- Implementing Cisco IOS Zone-Based Policy Firewalls
- Configuring Basic Firewall Policies on Cisco ASA Appliances
- Understanding IPS Fundamentals
- Implementing Cisco IOS IPS

### Secure Connectivity

- Understanding the Fundamentals of VPN Technologies
- Introducing Public Key Infrastructure
- Examining IPsec Fundamentals
- Implementing Site-to-Site VPNs on Cisco IOS Routers
- Implementing SSL VPNs Using Cisco ASA Appliances

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## Further Information:

For More information, or to book your course, please call or email us on;  
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