

# Implementing Cisco Network Security

A 5 day **Hands on** training course



## Description

A course that focuses on the design, implementation and monitoring of a comprehensive security policy, using Cisco IOS security features and technologies. All IOS examples and hands on experience is done using the IOS CLI. IPS is covered at the theoretical level from the perspective of FirePower technologies. Site-to-Site VPN configuration is covered on both IOS and the Cisco ASA . Modern malware examples are provided, cryptographic techniques use stronger hashing and encryption algorithms, and current versions of IOS, Cisco ASA and Cisco AnyConnect are highlighted.



## Key outcomes

By the end of the course delegates will be able to:

- ✓ Configure AAA on Cisco IOS devices.
- ✓ Secure the control plane, the management and control planes of network devices.
- ✓ Implement layer 2 security
- ✓ Configure Cisco ASA management access, NAT, access control and service policies.
- ✓ Implement a remote access VPN.



## Training Approach

This structured course uses Instructor Led Training to provide the best possible learning experience. Small class sizes ensure students benefit from our engaging and interactive style of teaching with delegates encouraged to ask questions throughout the course. Quizzes follow each major section allowing checking of learning. Hands on sessions are used throughout to allow delegates to consolidate their new skills.



## Details

### Who will benefit?

Those wishing to gain an understanding of Cisco Security on the network or those looking to obtain the CCNA for Security Certification.

### Prerequisites

Introduction to data communications & networking.

**Duration:** 5 days

**Overall rating**



### Generic Training



Generic training compliments product specific courses covering the complete picture of all relevant devices including the protocols "on the wire".

*"Friendly environment with expert teaching that teaches the why before the how."*  
G.C. Fasthosts

### Small Class Sizes



We limit our maximum class size to 8 delegates; often we have less than this. This ensures optimal interactivity between delegates and instructor.

*"Excellent course. The small class size was a great benefit..."*  
M.B. IBM

### Hands On Training



The majority of our courses use hands on sessions to reinforce the theory.

*"Not many courses have practice added to it. Normally just the theoretical stuff is covered."*  
J.W. Vodafone

### Our Courseware



We write our own courses; courseware does not just consist of slides and our slides are diagrams not bullet point text.

*"Comprehensive materials that made the course easy to follow and will be used as a reference point."*  
V.B. Rockwell Collins

### Customise Your Course



Please contact us if you would like a course to be customised to meet your specific requirements. Have the course your way.

*"I was very impressed by the combination of practical and theory. Very informative. Friendly approachable environment, lots of hands on."*  
S.R. Qinetiq

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## Course Content

### Security Concepts

- Threatscape
- Threat Defense Technologies
- Security Policy and Basic Security Architectures
- Cryptographic Technologies

### Secure Network Devices

- Implementing AAA
- Management Protocols and Systems
- Securing the Control Plane

### Layer 2 Security

- Securing Layer 2 Infrastructure
- Securing Layer 2 Protocols

### Firewall

- Firewall Technologies
- Introducing the Cisco ASA v9.2
- Cisco ASA Access Control and Service Policies
- Cisco IOS Zone Based Firewall

### VPN

- IPsec Technologies
- Site-to-Site VPN
- Client Based Remote Access VPN
- Clientless Remote Access VPN

### Advanced Topics

- Intrusion Detection and Protection
- Endpoint Protection
- Content Security
- Advanced Network Security Architectures

### Labs

- Challenge Lab 1: Configure AAA and Secure Remote Administration.
- Challenge Lab 2: Configure Secure Network Management Protocols.
- Challenge Lab 3: Configure Secure EIGRP Routing.
- Challenge Lab 4: Configure Secure Layer 2 Infrastructure.
- Challenge Lab 5: Configure DHCP Snooping and STP Protection.
- Challenge Lab 6: Configure Interfaces and NAT on the Cisco ASA.
- Challenge Lab 7: Configure Network Access Control with the Cisco ASA.
- Challenge Lab 8: Configure Site-to-Site VPN on IOS.
- Challenge Lab 9: Configure AnyConnect Remote Access VPN on ASA.
- Challenge Lab 10: Configure Clientless SSL VPN on the ASA.

