

# Integrating Secure Converged Wide Area Networks (ISCW)



*Experts in Networking*

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This course is designed for network administrators and support requiring a greater understanding of securing network environments using existing Cisco IOS security features and delegates seeking CCNP certification.

Our four-day instructor led course provides the knowledge and skills needed to secure Cisco IOS router networks, expand the reach of your enterprise network to teleworkers and remote sites, and explore implementing a highly available network with connectivity options such as VPN and wireless.

- **Authorised Cisco Instructors**
- **Live kit used for all labs**
- **12 months post course support**

### Pre-requisites

- Completion of the CCNA course or equivalent knowledge
- A basic knowledge of the Windows operating system

Course	Course Objectives
<p>Integrating Secure Converged Wide Area Networks</p> <p>This course forms part of the following Cisco certifications</p> <p><b>CCNP</b> (Cisco Certified Network Professional)</p> <p><u>Certification</u>            Required topics are covered for the Cisco exam:</p> <p><b>642-825 ISCW</b></p> <p><u>Duration</u>            4 days</p>	<p>Upon completion of this course, the delegate will be able to:</p> <ul style="list-style-type: none"> <li>• The Cisco hierarchical network model as it pertains to the WAN</li> <li>• Implementing teleworker configuration and access</li> <li>• Implementing and verifying frame-mode MPLS</li> <li>• Configuring a site-to-site IPSEC VPN</li> <li>• Configuring Cisco EZVPN</li> <li>• Strategies used to mitigate network attacks</li> <li>• Configuring Cisco device hardening</li> <li>• Configuring IOS firewall features</li> </ul>

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## Course Outline (continued)



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### Course Content

- Network Requirements
- The IIN and the SONA framework
- Cisco conceptual network models, such as Cisco Enterprise Architecture and Cisco hierarchical network model
- Requirements for establishing secure remote connections in a converged network
- Topologies for Facilitating Remote Connections
- Cable Technology
- DSL Technology
- Configuring the CPE as the PPPoE and PPPoA Client
- Verifying Broadband ADSL Configurations
- Introducing MPLS Networks
- Assigning MPLS Labels to Packets
- Implementing Frame-Mode MPLS
- MPLS VPN Technology
- IPsec Components and IPsec VPN Features
- Site-to-Site IPsec VPN Operations
- Configuring IPsec Site-to-Site VPN Using SDM
- Configuring GRE Tunnels over IPsec
- High Availability Options
- Configuring Cisco Easy VPN and Easy VPN Server Using SDM
- Implementing the Cisco VPN Client
- Mitigating Network Attacks
- Disabling Unused Cisco Router Network Services and Interfaces
- Securing Cisco Router Installations and Administrative Access
- Mitigating Threats and Attacks with Access Lists
- Securing Management and Reporting Features
- Configuring AAA on Cisco Routers
- Introducing the Cisco IOS Firewall
- Implementing Cisco IOS Firewalls
- Introducing Cisco IOS IPS
- Configuring Cisco IOS IPS