

# SCNA- Enterprise Security Solutions

Course SCNA-ESS • 5 Days

## ▶ COURSE OVERVIEW

Enterprise Security Solutions is designed to provide network administrators and security architects with an awareness of security-related issues and the essential skills they need to implement security in a given network. It is the second course offered in the second level of the Security Certified Program. This course is preceded by Advanced Security Implementation (ASI).

The Security Certified Network Architect (SCNA) certification requires the passing of two exams. To achieve the SCNA credential, candidates must achieve passing scores on both exams. The first exam is titled: Enterprise Security Implementation (ESI). The ESI exam tests on knowledge and skills acquired in both the Advanced Security Implementation and Enterprise Security Solutions courses.

## ▶ AUDIENCE

IT Security professionals who wish to remain on the cutting edge of their security career must continue to acquire knowledge and hone their skills. These professionals are aware that the defense provided by the firewall and IDS alone, while required, are not enough.

The ESS Course is designed to validate the foundational skills required by architect level security professionals in an enterprise environment. These skills include, but are not limited to: trusted network implementation, planning and designing a trusted network, Microsoft trusted networks, Linux trusted networks, managing certificates, local resource security, wireless security, securing Email and building trusted solutions. The timely information and hands-on labs allow candidates to experience the applications within a teaching environment.

## ▶ PREREQUISITES

To ensure your success, we recommend you first take the following courses or have equivalent knowledge:

- Hardening the Infrastructure
- Network Defense and Countermeasures
- Advanced Security Implementation

## ▶ OBJECTIVES

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

- Identify, describe the transition towards, and implement trusted networks.
- Implement a stand-alone Microsoft CA and a Microsoft Enterprise Root CA.
- Implement a Linux CA.
- Manage digital certificates.
- Configure local file encryption.
- Protect local files using biometrics.
- Configure and secure wireless networks.
- Secure email using PGP and S/MIME.
- Build trusted networks.

## ▶ COURSE OUTLINE

### Module 1: Trusted Network Implementation

- Defended Networks of Today
- Trusted Network Services
- Cryptography Primer
- The Role of Strong Authentication
- PKI Roles and Fundamentals

### Module 2: Planning a Trusted Network

- Required Components
- Certificate Paths
- Planning Documents
- Certificate Practices Framework



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## Module 3: Microsoft Trusted Networks

- Certificate Authority Requirements
- Major Functions of a CA Hierarchy
- Certificate Standard and Format
- Implement Microsoft Certificate Authorities
- Implement a Microsoft Enterprise Root CA

- Secure Email
- Certificate Revocation

## Module 4: Linux Certificate Authorities

- Introduction to Linux Certificate Authorities
- Certificate Authorities for Linux
- Prepare to Install a CA
- OpenLDAP
- Use CATool

## Module 5: Managing Certificates

- Certificate Lifecycle and Certificate Management
- Create Certificates
- Process Certificate Requests
- Assign a Certificate
- Certificates on Smart Cards

## Module 6: Local Resource Security

- Windows 2000 EFS Fundamentals
- Configure EFS
- Control EFS Use
- Store Encrypted Files on a Floppy Disk with EFS
- Secure Data with Biometrics

## Module 7: Wireless Network Security

- Wireless Networking Fundamentals
- Wireless LAN (WLAN) Fundamentals
- Wireless Security Solutions
- Wireless Auditing
- Wireless Trusted Networks

## Module 8: Secure Email

- Secure Email Fundamentals
- Secure Email with PGP
- S/MIME Background

## Module 9: Building Trusted Networks

- Building Windows Domains—Enterprise of Trust
- Configuring the Enterprise CA
- Setting Up the Linux CA
- Certificate Authority Trust—Cross Trust



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