Security Solutions for System Engineers

Duration: 5 Days   Course Code: SSSE

Overview:

The Security Solutions for System Engineers (SSSE) course is recommended for system engineers, network designers, and security professionals designing security solutions in enterprise environments. The course provides an introduction to security design best practices for both host- and network-centric security controls. The course includes a systematic overview of modern threats, controls, and defensive architectures for a variety of common business scenarios, and enables the learner to choose the optimal architecture and Cisco products to satisfy business risk management requirements. The course also includes practice labs, which demonstrate the application of security technologies used in the case studies within the course.

Target Audience:

This course is designed for:System engineers, network designers, and security professionals designing security solutions in enterprise environments

Objectives:

- Upon completing this course, the learner will be able to meet these overall objectives:

- Recognize modern threats to enterprise business processes

- Recognize modern security controls

- Choose appropriate controls for specific threats and environments

- Apply basic security design guidelines

Prerequisites:

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

- Basic network design concepts
- Intermediate user-level operating system concepts, especially for Microsoft Windows

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

- Designing for Cisco Internetwork Solutions (DESGN)

Testing and Certification

Recommended as preparation for:

- 642-583 - Security Solutions for Systems Engineers

SSSE is one of the courses required for the **Advanced Security** Partner Specialization

Content:

The Threat Landscape and Goals of Security Engineering

- General Principles
- Physical Attacks
- Network Infrastructure Attacks
- System and Application Attacks
- User Attacks

Overview of Security Controls

- Organizational Controls
- Types of Controls
- Security Engineering Principles
- Distribution of Controls Between Network and Endpoints
- Cryptographic Services
- Authentication and Identity Management
- Network Controls
- System Controls
- Application Controls

Network Infrastructure Protection Solutions

- Overview of Threats, Controls, and Specific Customer Requirements
- Architectures and Design Guidelines
- Case Studies

Enterprise Internet Access Solutions

- Overview of Threats, Controls, and Specific Customer Requirements
- Architectures and Design Guidelines
- Case Studies

Solutions for Exposed Enterprise Services and Data Centers

- Overview of Threats, Controls, and Specific Customer Requirements
- Architectures and Design Guidelines
- Case Studies

Unified Communications Protection Solutions

- Overview of Threats, Controls, and Specific Customer Requirements
- Architectures and Design Guidelines
- Case Studies

Secure WAN Solutions

- Overview of Threats, Controls, and Specific Customer Requirements
- Architectures and Design Guidelines
- Case Studies

Secure Remote Access Solutions

- Overview of Threats, Controls, and Specific Customer Requirements
- Architectures and Design Guidelines
- Case Studies

Enterprise Wireless Security Solutions

- Overview of Threats, Controls, and Specific Customer Requirements
- Architectures and Design Guidelines
- Case Studies

Enterprise Security Management Solutions

- Overview of Specific Customer Requirements
- Architectures and Design Guidelines
- Case Studies

Further Information:

For More information, or to book your course, please call us on 00 971 4 446 4987

training@globalknowledge.ae

www.globalknowledge.ae

Global Knowledge, Dubai Knowledge Village, Block 2A,First Floor, Office F68, Dubai, UAE