



ET 2.0: Telecommunications Technical Curriculum (TTC)

Program 4: Data Knowledge

Course 5: Security Concepts

PROGRAM OVERVIEW

The ExperTech 2.0 series is a library of CD-ROM or intranet-based products covering key communications topics. Seminar style presentations provide telecom professionals with easy access to the information they need. Topics are presented by Hill Associates instructors renowned for their technical expertise, industry experience, and outstanding presentation style.

The *Telecommunications Technical Curriculum (TTC)* has a total of five programs, each of which consists of one or more courses. TTC is a modular, yet comprehensive program designed around the needs of those who want the details but cannot attend a more traditional classroom-based, leader-led program.

Program 4: Data Knowledge is a five course series that deals with concepts and terminology related to data services. In this fifth and final course of the series, *Security Concepts*, we provide an overview of information security concepts. You will discuss the goals and objectives of information security, identify types of security threats, and explore the tools that can deal with them. The course also examines firewalls, intrusion detection and prevention systems, AAA, cryptology, and virtual private networks.

Program 4, Course 5: Security Concepts runs 127 minutes, and includes six lessons of audio, interactive elements, review slides, section knowledge checks, and a final exam. The participant can expect to spend about twice this amount of time to complete the course.

This program has three primary objectives:

- Provide an overview of Information Security concepts
- Identify various types of risks and threats, and address risk mitigation techniques and tools
- Examine the details, protocols, and benefits of VPNs

Specific topics can be developed, or packaged together to create a unique and customizable curriculum. All of our standard titles are available for preview at our store (www.hill.com/store).

About Hill Associates

At Hill Associates, we excel at creating custom talent development programs. Our experts help identify and assess your needs, and create training and educational programs that exactly meet those needs. Though we specialize in information technology, we've strengthened companies and organizations in a wide range of industries for over 25 years. Let us help you create a world-class talent development program that moves your business forward.

PROGRAM OUTLINE

Lesson 1: Information Security Landscape

- Introduce the language of InfoSec: the C-I-A triad, InfoSec planning, security domains, and the three tools of security protection

Lesson 2: Threats and Vulnerabilities

- Examine specific InfoSec threats and where they can occur in modern networks
- Explore natural and malicious threats (worms, viruses, social engineering, and DoS attacks)

Lesson 3: Firewalls and Intrusion Detection

- Differentiate among firewalls, intrusion detection and intrusion prevention systems, including DMZ architectures

Lesson 4: Cryptography

- Explore the purpose of cryptography and three forms of cryptography (secret key, public key, and hash functions)
- Discuss attack methodologies

Lesson 5: AAA

- Discuss authentication, authorization, and accounting (AAA) concepts; multifactor authentication and the architecture to support AAA

Lesson 6: Virtual Private Networks

- Define VPNs and explore venues in which VPN technology is found
- Examine VPN deployment models and protocols by layer of operation