



ET 2.0: Telecommunications Technical Curriculum (TTC)

Program 4: Data Knowledge

Course 1: Network Models and Suites

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 can not 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 first course of the series, *Network Models and Suites*, we introduce you to basic data networking concepts and how they are described using a model. The course then introduces some well known examples in today's networks. You will learn the meaning and use of the terms protocol, model, protocol suite, and layer in the context of data networking; how the OSI Reference Model and TCP/IP models have come together in a modern network; and explore example technologies and protocols at each layer.

Program 4, Course 1: Network Models and Suites runs 61 minutes, and includes four 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:

- Discuss and explain basic networking concepts, and describe them using three different modeling approaches
- Explore well-known protocol examples used in today's networks
- Examine how IEEE standards relate to a modern data network model

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: Basic Data Networking Terminology

- Explain the meaning and use of the terms protocol, model, protocol suite, and layer in the context of data networking

Lesson 2: Data Network Models

- Describe the OSI Reference Model and the TCP/IP model, and how they come together in a modern network
- Identify the functions provided by each layer of the modern five-layer network model

Lesson 3: Example Technologies

- Explore example technologies and protocols at each layer of the modern five-layer network model

Lesson 4: IEEE Standards Models

- Describe how the IEEE 802 standards model relates to the modern data reference model