



## ExperTech 2.0: The Fundamentals of Storage Networking

### 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.

Information, and the knowledge gained from that information, is driving today's Internet-based economy. Information must be available and shareable by different computing platforms, anywhere in the world, at any time. As a result, data backup is a key action item for most businesses.

This course examines how to create effective storage networks, addressing topics such as the three key components of storage networks; differentiating between DAS, NAS, SAN, and CAS; protocols such as Fibre Channel, FC/IP, iSCSI, SATA, and Ethernet; examples of storage networks based on RPO/RTO criteria; and the challenges of storage.

*The Fundamentals of Storage Networking* runs 2.9 hours, and includes 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 five primary objectives:

- Identify the fundamental concepts of storage networks
- Discuss the architectures, components, and protocols used in various types of storage networks
- Differentiate among a DAS, NAS, SAN, and CAS
- List the wiring options for a storage network
- Identify the various challenges of storage networking

Specific topics can be developed, or packaged together to create unique and customizable curriculum. All of our standard titles are available for preview at our store ([www.hill.com/store](http://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: Introduction to Storage Networks

- The importance of storage
- Defining storage networking
- Storage architectures
- Storage network components
- Comparing networking and storage

#### Lesson 2: Storage Network Components – Filing and Storing

- Key concepts – filing vs. storing
- Common storage types (tape, RAID, JBOD)
- Mirroring vs. replication
- Synchronous vs. asynchronous backups

#### Lesson 3: Storage Network Components – Wiring

- Key concept of wiring, and its characteristics
- Comparing DAS, NAS, SAN and CAS, and examples
- File vs. block level access

#### Lesson 4: Wiring Storage Networks

- ATA, IDE, and SCSI
- Fibre Channel and SATA
- FC/IP, iSCSI, and Ethernet

#### Lesson 5: Design Management Challenges

- The ROI and complexity of storage
- Examples (Tape, rapid recovery, CDP)

#### Lesson 6: Putting It All Together

- One size does not fit all
- Supporting RPO / RTO goals
- SANity check