

Technical Introduction to the Internet (Second Edition)

Course length: 2 days

Course Description

You use the Internet regularly, for both work and personal purposes. But now, for various reasons, you want to learn about the technical side of the Internet: What constitutes the Internet? How is a website developed? What are the emerging trends and technologies on the Internet? In this course, you will examine the technical aspects of the Internet.

Course Objective: You will examine the technical aspects of the Internet.

Target Student: Persons in a variety of job roles with basic end-user Internet skills (such as using a browser, using email, viewing websites, or searching for content), who now need to acquire an understanding of the technical underpinnings of the Internet, whether to evaluate Internet technologies for deployment, to interact effectively with Internet technical professionals in business situations, or to serve as prerequisite knowledge as part of a career transition into a job role that involves technical Internet skills.

Prerequisites: To ensure the successful completion of the Technical Introduction to the Internet course, students should be familiar with using personal computers. Students may be experienced in using web browsers (Microsoft Internet Explorer 6.0 or higher or Mozilla Firefox), email, or FTP services.

Delivery Method: Instructor led, group-paced, classroom-delivery learning model with structured hands-on activities.

Performance-Based Objectives

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

- Explore the history and development of the Internet.
- Describe how computers communicate across the Internet and describe the technologies that enable Internetworking.
- Examine the various constituents and technologies that enable the World Wide Web.
- Explore website development and maintenance.
- Describe the various aspects of Internet communication services.
- Examine various security issues related to the Internet.
- Describe the present trends and emerging technologies of the Internet.

Course Content

Lesson 1: Exploring the History and Development of the Internet

Topic 1A: Overview of the Internet

Topic 1B: Overview of the World Wide Web (WWW)

Topic 1C: Origins and Development of the Internet

Lesson 2: Examining the Working of the Internet

Topic 2A: The Physical Structure of the Internet

Topic 2B: Data Movement Across the Internet

Topic 2C: Internet Protocols

Topic 2D: Internet Addressing

Topic 2E: Internet Access



Lesson 3: Examining the World Wide Web

Topic 3A: Explore Websites
Topic 3B: Examine Web Clients
Topic 3C: Examine Web Servers
Topic 3D: Explore Web Applications
Topic 3E: Explore Web Addressing
Topic 3F: Search the Web

Lesson 4: Exploring Website Development and Maintenance

Topic 4A: Website Development
Topic 4B: Web Content Authoring
Topic 4C: Web Graphic Creation
Topic 4D: Web Programming
Topic 4E: Web Hosting
Topic 4F: Website Maintenance and Administration

Lesson 5: Exploring Internet Communication Services

Topic 5A: Electronic Mail (Email)
Topic 5B: Transfer Files Through the File Transfer Protocol (FTP)
Topic 5C: Instant Messaging (IM)
Topic 5D: Internet Forums
Topic 5E: Internet Telephony
Topic 5F: Online Gaming

Lesson 6: Examining Internet Security

Topic 6A: Internet Security Issues
Topic 6B: Overview of Security Tools
Topic 6C: Ecommerce Security Issues
Topic 6D: Configure Security Settings in a Browser

Lesson 7: Getting Familiar with Emerging Internet Trends

Topic 7A: Current Web Trends and Technologies
Topic 7B: Emergent Internet Technologies

Appendix A: FTP Commands

Appendix B: How to Log In to a Remote Host Using a Command-Line FTP Utility

