

# CIW Foundations Series – Course 1: Internet Fundamentals (March 2002)

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*Internet Fundamentals* is a 6-hour course designed to guide students through the Internet and its wide array of useful resources. Students learn how to use key Internet technologies, such as Web browsers, e-mail, newsgroups, File Transfer Protocol (FTP), Telnet, and search engines. Students gain experience configuring both Netscape Navigator and Microsoft Internet Explorer to access rich multimedia, including RealPlayer, Shockwave and Flash content. Students also use a variety of Web-based search engines to conduct advanced searches and learn the basics of electronic commerce and security issues.

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## Topics

### Overview of the Internet

- The Internet
- Evolution of the Internet
- How the Internet Works
- Client/Server Model on the Internet
- Connecting to the Internet
- Internet Protocols
- Domain Name System (DNS)
- The Business of Domain Names
- Uniform Resource Locators (URLs)
- Intranets and Extranets

### Browsing the World Wide Web

- Web Browsers and the Internet
- Evolution of the World Wide Web
- Technical Issues
- Introducing the Web Browser
- Viewing a Web Page with Netscape Navigator
- Viewing a Web Page with Microsoft Internet Explorer
- Customizing Your Browser
- Fonts
- Home Page
- History Folder
- Browser Cache
- Bookmarks and Favorites
- Image Loading
- Wireless Application Protocol (WAP)

### FTP, Newsgroups, and Telnet

- Additional Internet Resource Tools
- File Transfer Protocol (FTP)
- Newsgroup Articles
- Telnet

### Electronic Mail

- Electronic Mail (E-Mail)
- E-mail Address Format
- Sending and Receiving E-mail
- Netscape Messenger E-mail Basics
- Microsoft Outlook Express E-mail Basics
- Netiquette
- E-mail Signatures and Privacy
- E-mail Attachments
- Mailing Lists

### Objects, Plug-ins, and Viewers

- Multimedia on the Web
- Objects and Active Content
- C, C++, Java, Java Applets, JavaScript, Jscript, ActiveX, and Visual Basic Script (VBScript)
- Objects and Security Issues
- Introduction to Plug-in Technology
- Plug-in Installation
- Types of Browser Plug-ins
- Viewers
- Miscellaneous File Formats

### Search Engines

- Introduction to Search Engines
- Adding a Web Site to a Search Engine
- Search Indexes
- Basic and Advanced Search Techniques
- Boolean Operators
- Searching for Graphics, "People" Information, Mailing Lists, and Newsgroups
- Pre-Web Search Tools

### Security

- Internet Security
- Cookies
- Sending Secure Data over the Web
- Authentication
- Digital Certificates
- Configuring Browser Security
- Encryption
- Viruses
- Proxy Servers
- Firewalls

### E-Commerce

- Electronic Commerce (E-Commerce)
- Definition of Electronic Commerce
- Definition
- Electronic vs. Traditional Commerce
- Types of Electronic Commerce
- Electronic Data Interchange (EDI)
- Secure Electronic Transactions (SET)
- Advantages of Electronic Commerce
- Issues in Electronic Commerce
- Copyrights, Licensing and Trademarks
- E-Commerce Solutions
- Project Management Fundamentals

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## Target Audience

All professionals required to use the Internet in their daily job functions. Information in this course is required for all levels of specialization in the CIW program.

## Job Responsibilities

Understand the common core of Internet knowledge, and apply the foundation skills required for further specialization.

## Prerequisites

No experience using the Internet is necessary. An understanding of Microsoft Windows 95/98/Me is required.

## Duration

6 hours