

# Course Outline



Tel: +44 (0) 118 979 4000 Fax: +44 (0) 118 979 4000

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## CIW Foundations

### Course Description:

This course is aimed at Web Developers who wish to develop their skills to enable them to create, run and update websites. It provides a foundation in Network and Internet technologies and goes on to cover web authoring; web, mail & e-commerce services; and security.

This course is also suited to those who wish to take the Certified Internet Webmaster (CIW) Foundations Exam 1D0-410. Passing of this exam leads to CIW Status and is the first step to other CIW certifications such as Master CIW Designer and Master CIW Administrator.

### Pre-requisites:

Delegates should be familiar with the Internet to the level provided by the PTR Practical Internet course.

### Course Content:

- **Introduction To Networking**
  - Network Categories
  - Network Topologies
  - Network Operating Systems
  
- **The Internet**
  - How The Internet Works
  - Connecting to the Internet
  - Internet Protocols
  - Domain Name System (DNS)
  
- **LANs & WANs**
  - IEEE LAN Standards
  - WAN Standards
  - Transmission Media
  - Transmission Types

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- **The OSI Reference Model**
  - The Reference Model
  - Frames & Packets
  - Networking Protocols & The OSI Model
  - Mapping the OSI/RM
  - Choosing & Combining Protocols
  
- **The TCP/IP Protocol Suite**
  - Requests for Comments
  - Internet Architecture
  - Routing
  - Port Numbers
  - Internet Addressing
  - Subnet Masks
  - Normal TCP/IP Desktop Configurations
  - Diagnostic Tools for Internet Troubleshooting
  
- **Internetworking Servers**
  - Server Implementation
  - Content Servers
  - Performance Servers
  - Database Servers
  - Mirrored Servers
  - Popular Server Products
  
- **Web Servers & Databases**
  - Databases
  - Introduction to Database Gateways for Web Servers
  - Common Gateway Interface (CGI)
  - Server Application Programming Interfaces (SAPIs)
  - Server Side Scripting Technologies
  - Javascript
  - ASP
  - PHP
  - HTML

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- **Web Servers & Databases**
  - Java & Java Servlets
  - JSP
  - ColdFusion
  - Database Connectivity
  - ODBC
  - JDBC
  
- **Using the World Wide Web**
  - Evolution of the World Wide Web
  - Web Browser Software
  - Using Browsers to Access Web Pages
  - Customizing your Browser
  - Images & Web Browsers
  - Wireless Web Protocols
  
- **Web Search Engines**
  - Search Engines
  - Directories
  - Ranking Systems
  - Getting a Website Listed
  - Search Indexes
  - Search Techniques
  - Search Tools
  
- **Using E-Mail and Other Clients**
  - Electronic Mail
  - Other Internet Clients
  - FTP
  - Newsgroups
  - Telnet
  
- **Media & Active Content**
  - Objects & Active Content
  - Types of Browser Plug-Ins
  - Additional Media File Formats
  - Image File Formats

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- **Internet Security**
  - What is Security?
  - The Cracker Process
  - Types of Attacks
  - Defending Your Network
  - Firewalls
  - Defending Your Computer
  - Defending Your Transmitted Data
  
- **E-Commerce Fundamentals**
  - Electronic Commerce (E-Commerce)
  - Copyrights, Licensing & Trademarks
  - Project Management
  
- **Basic HTML**
  - What is HTML?
  - HTML Coding
  - HTML Horizontal Rules & Graphical Elements
  - HTML Hyperlinks
  
- **Advanced HTML**
  - HTML Tables
  - HTML Forms
  - HTML Image Techniques
  - HTML Frames
  - Graphical User Interface HTML Editors
  - HTML Extensions
  - Cascading Style Sheets (CSS)
  - Javascript
  - Dynamic HTML (DHTML)
  - Document Object Model (DOM)
  - Extensible HTML (XHTML)
  - Extensible Markup Language (XML)

**Course Duration:**

**5 Days**

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