

HTML/XHTML Web Page Development with CSS

CDT750

This course provides a comprehensive introduction to Web page programming using HTML/XHTML and CSS. Upon course completion, students should be able to design, build, test and implement a basic Web site.

Audience

- Anyone interested in creating web pages using HTML/XHTML and CSS

Prerequisites

- CDT753, Introduction to XML is recommended but not required.
- Experience in using a Web browser and a text editor are recommended but not required.

Course Length

- Three Days

Teaching Methods

- Lecture
- Hands-On Exercises

Learning Objectives

- Create and view a Web page
- Incorporate images into a Web page
- Incorporate links into a Web page
- Incorporate lists and tables into a Web page
- Style Web page output using CSS Style Sheets
- Create forms, including text boxes, selection lists, buttons, radio buttons, and check boxes
- Create a simple Web site consisting of several linked Web pages
- Test and debug a simple Web site

Course Outline

TG5

Introduction

- The Internet, the Web and HTML
- Choosing a Browser

Web Page Building Blocks

- Markup and Text Content
- Links, Images and Other Non-Text Content
- HTML vs. XHTML
- Adding Style to Your Web Pages

Working with Web Page Files

- Designing Your Site
- Creating a New Web Page
- Specifying a "Home" Page
- Editing and Organizing Files

Basic (X)HTML Structure

- The Foundation
- Headings, Paragraphs and Line Breaks
- Divisions
- In-Line Spans

Basic (X)HTML Formatting

- Bold and Italicizing
- Controlling Text Size
- Preformatted Text and Monospaced Fonts
- Quoted Text, Subscripts and Superscripts

Creating Web Images

- Getting Images
- The Save for Web Command
- Making Images Smaller
- Color Issues

Using Images

- Inserting Images on a Page
- Offering Alternate Text
- Scaling an Image and Specifying Image Size
- Aligning Images

Links

- Creating a Link to Another Web Page
- Using Anchors
- Using Images to Label Links
- Creating a Client-Side Image Map

Creating Styles

- Constructing Style Rules
- Constructing Selectors
- Selecting Link Elements Based on Their State
- Combining Selectors

Applying Styles

- External Style Sheets
- Alternate Style Sheets
- Internal Style Sheets

Formatting with Styles

- Font Families
- Bold, Italics and Font Size
- Aligning, Spacing, Indenting and White Space
- Colors

Layout with Styles

- Page Structure and the Box Model
- Displaying and Hiding Elements
- Margins, Borders and Padding
- Floating Elements

Style Sheets for Printing

- Media-Specific Style Sheets

Lists

- Ordered and Unordered Lists
- Bullets and Numbering
- Styling Nested Lists

Tables

- Creating a Simple Table
- Borders and Alignment
- Spanning Cells
- Using Column Groups

Forms

- Forms and Server-Side Processing Programs
- Creating a Form
- Text Boxes and Text Areas
- Radio Buttons and Check Boxes
- Selection Boxes and Buttons

Symbols and Non-English Characters

- Character Encodings
- Specifying Your Page's Encoding
- Adding a Character from Outside of the Encoding

Testing and Debugging Web Pages

- Validating Your Code
- Checking the Easy Stuff
- Testing Your Page
- Differences Between Browsers

Publishing Your Pages on the Web

- Finding a Host for Your Site
- Transferring Files to the Server