

## HTML and Web Page Design

### Course Summary

#### Description

HTML was developed to teach the core technologies and fundamental use of the HyperText Markup Language, or HTML (W3C Specifications 3.2,4.x). This course will expose the student to the base syntactical, technical, and publishing aspects of HTML. The student will gain hands-on experience creating HTML tags, tag attributes, character references (both numeric and entity), and different types of hyperlinks. This course teaches the student how to create web sites using more advanced features of HTML. The student is also exposed to frames, advanced frame layout, linking frames, tables, and formatting and nesting tables.

#### Objectives

At the completion of this course, the student will be able to:

- Understand Hypertext theory (linear vs. Nonlinear information)
- Understand Scripting language characteristics
- Use HTML tags (syntax, usage, and categories)
- Understand HTML tag attributes
- Understand The proper use of white space
- Use Lists (ordered and unordered)
- Understand Character references (numeric and entity)
- Use Inline images
- Use background colors and patterns
- Create Hyperlinks and anchors
- Use MAILTO URL anchors
- Use NAME anchors ("internal" links)
- Use The <META> tag
- Understand frames and advanced frames topics
- Nest frames within frames
- Mix frame rows and columns
- Combine rows and columns (spanning)
- Link frames
- Create nav bars with linked frames
- Understand the frame NAME and TARGET attributes
- Understand inline frames
- Understand tables and advanced tables subjects
- Colorize and arrange data within table cells
- Create page columns with invisible tables
- Understand table cell spanning and arranging cell data
- Nest tables in tables and embed lists in tables

#### Topics

- What is HTML?
- HTML documents
- HTML tags
- Tag attributes and character references
- Creating hyperlinks
- Inline images and colors
- HTML 4.0 tips and tricks
- Introduction to frames
- Formatting frames
- Linking frames
- Introduction to tables
- Formatting tables
- Nesting & embedding tables

#### Audience

This course is designed for those who need to develop, publish, and maintain web-based information.

#### Prerequisites

The student should have taken an Internet and Web course or have equivalent experience and have basic experience and understanding of HTML.

#### Duration

Three days

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### Course Outline

- I. What is HTML?**
  - A. Hypertext & Hypermedia
  - B. HyperText Markup Language
  - C. URL addresses
- II. HTML Documents**
  - A. HTML document structure
  - B. HTML document characteristics
- III. HTML Tags**
  - A. Document section tags
  - B. Tag categories
  - C. Text formatting tags
  - D. Layout tags
  - E. Logical tags
  - F. Lists (ordered/unordered)
- IV. Tag Attributes and Character References**
  - A. Tag attributes
  - B. Horizontal rule attributes
  - C. Font tag attributes
  - D. List tag attributes
  - E. Character references
- V. Creating Hyperlinks**
  - A. Hyperlinks defined
  - B. Four types of anchors
  - C. Standard HREF anchors
  - D. MAILTO anchors
  - E. File download anchors
  - F. NAME anchors
- VI. Inline Images and Colors**
  - A. Using inline images
  - B. GIF vs. JPEG
  - C. HSPACE & VSPACE
  - D. Backgrounds and colors
- VII. HTML 4.0 Tips and Tricks**
  - A. New <BR> & <P> attributes
  - B. Forcing a browser window
  - C. The <META> tag
  - D. The <OL> START attribute
- VIII. Introduction to Frames**
  - A. What are frames?
  - B. Anatomy of frames
  - C. Master and slave documents
  - D. COLS and ROWS attributes
  - E. <FRAMESET> tag
  - F. <FRAME> tag
  - G. Nesting frame sets
  - H. Inline frames
- IX. Formatting Frames**
  - A. Combining rows and columns
  - B. Modifying frame appearance and functionality
  - C. HTML extensions for frames
  - D. BORDER, BORDERCOLOR, and FRAMEBORDER
  - E. <NOFRAMES> tag
- X. Linking Frames**
  - A. NAME and TARGET
  - B. The <BASE> tag
  - C. Reserved TARGET values
  - D. Creating navigation bars
- XI. Introduction to Tables**
  - A. What are tables?
  - B. Table tag family
  - C. Table tag attributes
  - D. Colorizing table cells
  - E. Arranging data in cells
  - F. Creating and formatting page columns and invisible tables
- XII. Formatting Tables**
  - A. Advanced table formatting
  - B. Cell spanning
  - C. Rules and frames
  - D. RULES attribute
  - E. FRAME attribute
- VIII. Nesting & Embedding Tables**
  - A. Embedding lists in tables
  - B. Nesting tables in tables