HTML/CSS Course Details

Introduction

- The role of HTML
- The role of CSS
- Web standards and mandatory elements
- Understanding a robust HTML5 template
- The purpose of the head element
- Understanding Meta Data
- About element attributes

Beginning to Code

- Overview of a HTML editor
- Making code easy to read – best practice
- Working with the title tag
- Write your first body content and test
- Adding headings and sub headings
- Overview of structural elements
- Adding structure to the page
- Working with paragraphs
- Using local formatting for bold, italic and underline
- Adding line breaks and rules
- Using special characters
- Adding comments

Images & Videos

- Overview of supported image file types
- About image optimisation
- Embedding images
- Image Accessibility
- About Video file formats
- Streaming HTML5 video
- Providing video fallback content

HTML Lists

- Using the Definition List for terms and descriptions
- Grouping related key-points with Unordered Lists
- Structuring hierarchical points with Ordered Lists
- Ordered list bullet options
- Nesting Lists

Hyperlinks

- Linking pages together
- Linking to external websites
- Creating links within a page
- Creating Image links

Data Tables

- Overview of data tables
- Inserting a table
- Adding a caption
- Structuring rows
- Adding table headers and table data
- Merging columns

Front End Forms

- Overview of how data is sent to the server
- Embedding a form
- Providing fields for user input
- Inserting radio buttons and checkboxes
- Creating select list menus
- Adding reset and submit buttons
- Understanding form action and method attributes
- Emulating form processing by sending to a static page
- Using inbuilt form validations

Overview of CSS

- What is the Cascade?
- What can CSS do?
- Where to put the CSS code
- Separating content from design
- Syntax and structure

Applied CSS

- Working with External CSS
- Understanding the Element selector
- Working with fonts
- Understanding hexadecimal colour theory
- Styling text colours with hexadecimal and colour names
- Using text alignment
- Styling paragraphs
- Styling headings
- Styling hyperlinks
- Understanding the Class selector
- Creating and applying Class styles
- Using the span element
- When to use the ID attribute
- Creating and applying ID styles

Layout Fundamentals

- CSS Box Model
- Working with padding, margins and borders
- Longhand and shorthand syntax
- Changing the width of elements
- Understanding the difference between Block and Inline Levels

Image Essentials

- Understanding background images
- Creating tiled backgrounds
- Controlling background repeats
- Controlling background positions
- Using image headers
- Using fixed backgrounds
- Creating Custom Bullet Points
- Controlling Icons
- Working with Unicode

Responsive Deisgn

- Mobile first or Desktop first?
- Fixed units versus percentage values
- Applying responsive font size
- Responsive image and video techniques
- Using media queries to create breakpoints
- Using the browser mobile emulator for testing

Practical Layout Techniques

- Styling Data Tables and Forms
- Using Image Floats
- Creating columns with floats
- Understanding box-sizing
- Working with overflows
- Inserting content with :before and :after
- Fixing float issues with overflow hack
- Fixing float issues with clearfix hack
- Modern columns with Flexbox
- Layering content with absolute Positioning

Pseudo Selectors

- Hover effects
- Styling the first letter and first line
- Styling first, last, alternate and nth elements
- Styling by Attribute
- Styling direct descendants
- Using : not to omit elements
- Overview of various other pseudo elements

CSS Effects

- Rounded corners, Box Shadow and Text Shadow
- CSS Transitions
- CSS Animation