40410-A: JavaScript, HTML and CSS Web Development

Course Duration: 16 Hours (2 Days)

Overview

The 40410-A: JavaScript, HTML, and CSS Web Development course is an all-encompassing training program designed to equip learners with the essential skills to create modern and dynamic web pages. This course covers the foundational aspects of web development, starting with HTML CSS JavaScript training in Module 1, which introduces HTML and progresses to building a basic document structure. Learners will understand the key HTML elements and how to format them effectively. As the course advances, participants will delve deeper into sophisticated HTML features, CSS styling, and JavaScript programming, ensuring they can design and implement interactive web components. Modules on CSS and JavaScript solidify the core competencies required for creating responsive designs and adding programmatic functionalities to web pages. With additional insights into external libraries like jQuery, AngularJS, and Bootstrap, this course prepares individuals to modernize web pages and leverage the full potential of JavaScript HTML, and SS web development. Upon completion, learners will have a comprehensive skill set to craft engaging, robust, and modern web applications.

Audience Profile

This course equips learners with foundational web development skills in HTML, CSS, and JavaScript.

- Beginners in web development seeking to learn core technologies.
- Front-end developers looking to strengthen their HTML, CSS, and JavaScript skills.
- Designers transitioning into front-end development roles.
- Computer science students seeking practical web programming experience.
- Hobbyists and personal bloggers aiming to customize their websites.
- Webmasters responsible for managing and improving websites.
- IT professionals looking to expand their knowledge in web development for career growth.
- Entrepreneurs planning to launch their own web-based startups.
- Marketing professionals collaborating with development teams.
- Content creators and digital media specialists looking to enhance their technical skills.
- Educators and instructors teaching web development fundamentals.

Course Syllabus

Module 1: Creating Web Pages using Hypertext Markup Language (HTML)

- Introduction to HTML
- Understanding Document Structure and Layout
- Working with Basic HTML Elements

- Formatting HTML Elements
- Introduction to Hyperlinks
- Configuring the Development Environment
- Using Various HTML Elements on a Web Page
- Creating a Basic HTML Document Using Core Elements

Module 2: Creating Sophisticated Document Structures using HTML

- Capturing User Input with HTML Forms
- Introduction to HTML5 Semantic Elements
- Working with Scalable Vector Graphics (SVG)
- Implementing Media Controls
- Adding Additional Features to Web Pages
- Using Advanced HTML Features Such as Forms

Module 3: Designing Web Page Elements using Cascading Style Sheets (CSS)

- Introduction to CSS
- Working with Style Definitions
- Understanding Style Inheritance
- Applying the Box Model
- Using Web Fonts
- Styling Web Pages with CSS

Module 4: Implementing Program Flow using JavaScript (JS)

- Introduction to JavaScript
- Working with JavaScript Data Types
- Understanding JavaScript Callbacks
- Exploring Advanced JavaScript Concepts
- Utilizing HTML5 APIs
- Implementing an Image Carousel in HTML5
- Adding Logical Flow to Web Pages with JavaScript

Module 5: Adding External Libraries to Enhance HTML Applications

- Introduction to jQuery
- Introduction to AngularJS
- Introduction to Bootstrap
- Introduction to TypeScript
- Introduction to Sass (Syntactically Awesome Stylesheets)
- Modernizing Web Pages with External Libraries

- Utilizing Various Libraries to Enhance HTML, CSS, and JavaScript Functionality