

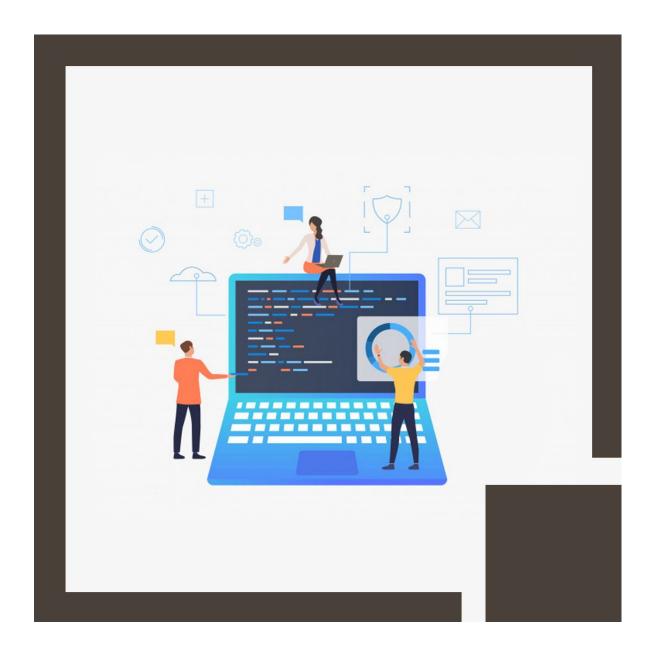
Document Generated: 06/30/2024 Learning Style: Virtual Classroom

Provider:

Difficulty: Intermediate

Course Duration: 4 Days

Mastering Modern Web Development using HTML5, CSS3, JQuery and More (with Advanced Topics) (TT4600)



About this course:

Learning Web Development utilizing JQuery, CSS3, HTML5, (with Specialized Topics) Discussing User interface Techniques, Methodologies & More is an indepth web design/development training program for software developers who want to learn the latest techniques and methodologies in web technology, optimization, performance, and UI design. This detailed course offers a dynamic combination of theory and hands-on labs intended to take participants through CSS3, HTML5, and related technologies. Learners completing this training will use the latest skills to design, execute and implement reliable, scalable and stable web apps.

The Web Developer can earn an average salary of \$74,110 per annum.

Course Objective:

This online training offers indoctrination in the practical implementation of the umbrella of technologies that are at the forefront of web creation. Students will

discover:

- What is CSS3, what's new, and how it's used in Web apps
- Introduction about jQuery and why and when do we use it
- Best methods to use jQuery because it functions unobtrusively and does well
- What is HTML5, what's new and how it's used in web apps
- Web-based user interface templates, terminology, and deployment options
- The broad range of choices, methods, and strategies that can be used while designing and implementing the web
- JQuery extensions and plugins to boost the apps
- How jQuery eliminates code and adds a wealth of features to new and existing web pages
- How to apply UI patterns that incorporate a specific case study in web development

Audience:

 It is an intermediate and beyond-level web development program intended for professional developers who want to broaden their web development and design skills immediately or need to improve sound CSS and HTML coding practices. This style of programming is hands-on.

Prerequisite:

 The participants will have prior or current experience in designing software apps, and also fundamental CSS and HTML. Real expertise in a programming environment is a must.

Course Outline:

Module 1: HTML5

Lesson: HTML5

- HTML5 Design Principles
- HTML5 ? New Features
- HTML5 Semantic Tags
- HTML5 Forms ? New Features
- HTML5 Media
- Media API Methods and Events

Lesson: HTML5 JavaScript API

- Drag and Drop API
- Messaging API
- Web Storage API

Module 2: CSS3

Lesson: CSS3 Overview

- CSS3 New Features
- CSS3 Browser Support
- CSS3 Selectors Support
- CSS3 Properties Support

Lesson: CSS3 Advanced Selectors

- Attribute Selectors
- Combinators
- Pseudo-Class Selectors
- UI Selectors

Lesson: CSS3 Visual Effects

- 2D Transformations
- Transitions
- Font and Color in CSS3
- Border and Other Effects

Module 3: jQuery

Lesson: Why jQuery?

- JavaScript Evolution
- Why jQuery?
- jQuery Usage
- Downloading jQuery

Lesson: Basic jQuery

- jQuery: Operational Overview
- ¡Query Capability Overview
- Basic Selectors
- Multiple Selector
- Selecting by Order

Lesson: Manipulating the DOM

- Attributes vs. Properties
- CSS Box Model Properties
- Element Content
- Manipulating Children
- Wrapping and Unwrapping
- Effects (Basic Animation)
- Effects Queues

Lesson: More On Element Selection

- Hierarchical Selectors (Combinators)
- Attribute Selectors
- Basic vs. Child Filters
- Filtering Methods
- Traversing Methods

Module 4: JavaScript Object Notation (JSON)

Lesson: JSON Objects

- Arrays
- Objects
- Arrays in Objects
- · Objects in Arrays

Lesson: JSON Syntax and Processing

- JSON Parsers
- Sending Data
- JSON vs XML

Module 5: Web Application Performance

Lesson: Download Options

- User Experience on Page Load
- Multi-Stage Downloading
- Predictive Fetching
- On-Demand Downloading
- JavaScript and CSS Minification
- Lesson: JavaScript Best Practices (Optional)
- JavaScript Code Conventions
- Formating and Structure
- Variable and Function Declarations
- Statement Conventions
- Best Practices and Principles

Lesson: Debugging, Optimization & Profiling

- Internet Explorer Developer Tools
- FireBug & FireBug Lite
- Fiddler
- Code Optimization
- CSS and Reflow Minimization

Lesson: Memory Management

- JavaScript Memory
- Removal of DOM Nodes
- Cyclic References

Reusing DOM Nodes

Module 6: Web App Design Patterns

Lesson: UI Patterns Overview

- User Interface/Interaction Design Patterns
- · Categories from Yahoo! Design Pattern Library
- Web Application Design Principles

Lesson: Layout Patterns

- Page Grids
- Page Grids Solution

Lesson: Navigation Patterns

- Accordion
- Alphanumeric Filter Links
- Breadcrumbs
- Item Pagination
- Search Pagination
- Module Tabs
- Navigation Tabs
- Progress Bar

Lesson: Selection Patterns

- AutoComplete
- Calendar Picker
- Carousel

Lesson: Rich Interaction Patterns

- Invitations
- Transitions
- Drag and Drop
- Rich Interaction

Module 7: jQuery Plugins (Optional)

Lesson: jQuery UI

- jQuery UI Effects
- Advanced Easing
- Interactions
- Position Utility
- Widgets
- Icons

Lesson: jQuery Plugins

- jQuery Validation Plugin
- ¡Query Form plugin
- jQuery BBQ (Back Button & Query) Plugin
- jQuery Hotkeys Plugin
- ¡Query Color Plugin

Lesson: Templates

- Micro Templates
- ¡Query Template Plugin
- Compiling Templates
- Template Items

Module 8: Mobile Development (Optional)

Lesson: Challenges for Mobile Development

- What is the Difference?
- Mobile Web Applications
- Native Code Generators
- Native Web Runtime (NWR)
- Design Tools
- Data and Languge Options
- Security

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