

## jQuery Programming

**Duration:** 3 Days (*Face-to-Face & Remote-Live*), or 21 Hours (*On-Demand*)

**Price:** \$1695 (*Face-to-Face & Remote-Live*), or \$1495 (*On-Demand*)

**Discounts:** We offer multiple discount options. [Click here](#) for more information.

**Delivery Options:** Attend face-to-face in the classroom or [remote-live attendance](#).

### Students Will Learn

- Referencing jQuery in a Page
- Selecting page elements using jQuery selectors
- Selecting DOM elements using standard DOM methods
- Creating and using jQuery plugins
- Registering events in jQuery
- Setting CSS properties of page elements
- Making Ajax requests using the `$.ajax` function
- Changing the display style of an element using various effect methods

### Course Description

jQuery simplifies client-side scripting via a series of open-source libraries that provide frameworks for enhanced functionality. This hands-on course covers the jQuery library, DOM manipulation, performing Ajax requests, and an overview of the UI library. Students will also learn how to use the jQuery function to return a wrapped set of elements, use utility functions to work with arrays and strings, modify the appearance of elements using a number of predefined effects as well as how to implement existing plugins.

Comprehensive hands on exercises are integrated throughout to reinforce learning and develop real competency.

### Course Prerequisites

Knowledge of HTML5, CSS and JavaScript equivalent to attending the [Website Development with HTML5, CSS and Bootstrap](#) and [JavaScript Programming](#) courses.

### Course Overview

jQuery Fundamentals

jQuery Selectors and Filters

- Overview of jQuery
- Downloading and Using jQuery library
- Benefits of Using jQuery
- Uses of the jQuery function

## DOM Manipulation

- Accessing Attributes of an Element
- Adding and Removing Elements
- Setting Element Content With `text()` and `html()`
- Manipulating Classes and CSS

## Page Animation with Effects

- Controlling Visibility Using `show()` and `hide()`
- Creating Slide and Fade Effects
- Creating Custom Animations
- Animation Queuing and Callback Functions

## jQuery Form Enhancement

- Using Form Selectors and Filters
- Handling Keyboard and Focus Events
- Improving Behavior and Appearance
- Performing Form Validation
- Using the Validation Plugin

## jQuery Plugins

- Benefits of Plugins
- Integrating Popular Plugins
- Image Manipulation with Slideshows and Carousels
- Creating Custom Plugins

- Ready Handler
- Using jQuery Selectors and Filters
- Selecting Single and Multiple Elements
- Operating on Wrapped Sets
- Method Chaining

## jQuery Events

- jQuery Event Model
- Binding and Removing Event Handlers with `on()` and `off()`
- Delegated and Direct Events
- Event Object
- Common jQuery Events

## Ajax Requests Using jQuery

- Ajax Overview
- Loading Remote HTML
- Making Ajax Requests Using the `$.ajax()` Function
- Using the `$.get()` and `$.post()` Functions

## Utility Functions

- Disabling Animations
- Using Other Libraries with jQuery
- String and Array Manipulation

## jQuery UI Overview

- Configuring and Downloading the UI Library
- Themes and Styles
- Using ThemeRoller
- Overview of UI Widgets

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