JavaScript for Developers

Duration: *5 Day(s)*

Course Overview

JavaScript for Developers is a 5-day instructor-led course that will give you an in depth, hands-on study of JavaScript. The course includes detailed, guided labs that will teach you to write code, use DOM, add jQuery, make use of Ajax, and more. You will take on multiple projects that update an existing website to let you dive right into the advanced topics.

This JavaScript training course is intended for you, regardless if you're a novice or experienced programmer. Some experience in C++, C#, or Java is helpful but not required.

Review this course online at https://www.alta3.com/courses/55244

Objectives

- Write and test JavaScript code effectively in modern browsers.
- Implement and manipulate DOM elements using jQuery.
- Utilize Ajax for asynchronous web services and data handling.
- Create advanced functions and error handling in JavaScript.

Who Should Attend

- Novice programmers
- Experienced developers
- Web developers
- Software architects

Prerequisites

Before attending this course, students should have previous programming experience using C, C# or Java.

Course Outline

Module 1: Basic Scripting

1. JavaScript Basics
2. JavaScript or ECMAScript?
3. Which Version of JavaScript am I Using?
4. Shims, Shivs, and Polyfills
5. Writing and Testing JavaScript
6. Editors and the F12 Tools
7. Key Parts of a Script
8. Lab: Q&A quiz, Experimenting with the F12 Developer Tools, Update the time on the page by using JavaScript, Add JavaScript to respond to an event

Module 2: The Document Object Model

9. The DOM
10. Accessing Objects from the DOM
11. Responding to Events
12. Adding Elements to the DOM
13. Lab: Q&A quiz, Add an Animation to the Home Page, Move the JavaScript to a File, Add JavaScript to Supply Mouse Over Tips to the Menu Tabs

Module 3: Introduction to jQuery

14. jQuery
15. Downloading the jQuery Library
16. jQuery Versions
17. Linking to the Library
18. Selecting Elements using jQuery
19. Working with the Data Returned by jQuery
20. Setting CSS Properties
21. Running a Function Against the jQuery Return Set
22. Lab: Q&A quiz, Add the jQuery Library to the Project, Create New Elements using jQuery

Module 4: Ajax and Web Services

23. Web Services
24. HTTP Verbs
25. Data Formats – XML and JSON
26. Ajax
27. RESTful Web Services
28. OData
29. OData Queries
30. OData Updates
31. Lab: Q&A quiz, Exploring a REST Web Service, Load Data from a Web Service

Module 5: Diving in Deeper

32. More about Data Types and data conversion
33. Variables: more on Scopes, Hoisting, Creating and Deleting
34. Functions: Anonymous functions, Closures, Self-invoking functions, the “this” keyword and the Module Pattern
35. More on error handling
36. Recursion
37. Lab: Q&A quiz