

KOENIG SOLUTIONS • COURSE OUTLINE

JavaScript for Developers

Learn to write JavaScript, manipulate the DOM, use jQuery, and connect to web services with Ajax and OData.

5

MODULES

35

TOPICS

10

HANDS-ON LABS

COURSE OVERVIEW

This course covers the fundamentals of JavaScript, including scripting basics and the tools used to write and test code. It then examines the Document Object Model, showing how to access objects, respond to events, and add elements to a page. The course introduces jQuery for selecting elements, handling returned data, and setting CSS properties, followed by Ajax and web services, including HTTP verbs, XML and JSON data formats, RESTful services, and OData queries and updates. It concludes with deeper language topics such as data types, variable scope and hoisting, functions, the “this” keyword, errors, and recursion.

WHO THIS COURSE IS FOR

Web Developers

Front-End Developers

Software Developers

UI Developers

LEARNING OBJECTIVES

- Explain core JavaScript syntax and key parts of a script
- Identify differences between JavaScript versions and polyfills
- Access and modify DOM objects and respond to events
- Apply jQuery to select elements and set CSS properties
- Implement Ajax calls to consume RESTful web services
- Interpret XML and JSON data formats returned by services
- Apply OData queries and updates against a web service
- Analyse variable scope, hoisting, functions, and recursion in JavaScript

5 Modules, 35 Topics

01

3 Labs

Basic Scripting

TOPICS

JavaScript Basics · JavaScript or ECMAScript? · Which Version of JavaScript am I Using? · Shims, Shivs, and Polyfills · Writing and Testing JavaScript · Editors and the F12 Tools · Key Parts of a Script

02

3 Labs

The Document Object Model

TOPICS

The DOM · Accessing Objects from the DOM · Responding to Events · Adding Elements to the DOM

03

2 Labs

Introduction to JQuery

TOPICS

- jQuery
- Downloading the jQuery Library
- jQuery Versions
- Linking to the Library
- Selecting Elements using jQuery
- Working with the Data Returned by jQuery
- Setting CSS Properties
- Running a Function Against the jQuery Return Set

04

2 Labs

Ajax and Web Services

TOPICS

Web Services · HTTP Verbs · Data Formats - XML and JSON · Ajax · RESTful Web Services · OData · OData Queries · OData Updates

05

Diving in Deeper

TOPICS

Is JavaScript Compiled? · Data Types and Objects · Extending Data Types · Variables, Scopes and Hoisting · Functions · The “this” Keyword · Errors · Recursion

Practise What You Learn

#	MODULE	ACTIVITY
01	Basic Scripting	■ Exercise 1 - Experimenting with the F12 Developer Tools ■ Exercise 2 - Update the time on the page by using JavaScript ■ Exercise 3 - Add JavaScript to respond to an event
02	The Document Object Model	■ Add an Animation to the Home Page ■ Move the JavaScript to a File ■ Add JavaScript to Supply Mouse Over Tips to the Menu Tabs
03	Introduction to JQuery	■ Add the jQuery Library to the Project ■ Create New Elements using jQuery
04	Ajax and Web Services	■ Exploring a REST Web Service ■ Load Data from a Web Service

WHAT IS INCLUDED

Everything You Need to Succeed

- Koenig course material for every module
- Hands-on exercises throughout the course
- Delivery by certified instructors and subject matter experts
- Course completion certificate from Koenig

Who We Are

Established in 1993, Koenig Solutions is a globally recognised training provider with 35+ technology partnerships, 5,000+ training programmes and a network of certified instructors and subject matter experts, supporting individuals and enterprise teams worldwide.

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✉ info@koenig-solutions.com