

KOENIG SOLUTIONS • COURSE OUTLINE

Fundamentals of JavaScript

Learn to write JavaScript that controls program flow, manipulates the DOM, handles forms and events, and manages state.

11

MODULES

41

TOPICS

COURSE OVERVIEW

This course covers the role of JavaScript in web development, its syntax and how to incorporate it into an HTML page. It then looks at writing functions, working with the Browser and Document Object Models, controlling program flow, and handling errors with try-catch clauses. Further modules address forms and events, built-in objects such as strings, dates, math and arrays, maintaining state with cookies, working with images, and additional array handling techniques such as sorting and associative arrays.

WHO THIS COURSE IS FOR

Web Developers

Front-End Developers

UI Developers

Software Developers

LEARNING OBJECTIVES

- Explain the role of JavaScript in web development
- Describe the difference between object-oriented and object-based languages
- Apply JavaScript syntax including variables, operators and literals
- Write functions and apply scoping rules and argument passing
- Access and manipulate the Browser and Document Object Models
- Implement looping, conditional and try-catch error handling
- Validate forms and add event handlers to form elements
- Work with built-in objects such as strings, dates and arrays

11 Modules, 41 Topics

01

Overview of JavaScript

TOPICS

- Role in Web development
- Difference between object-oriented (like Java) and object-based (like JavaScript) languages
- Incorporation of JavaScript in an HTML page

02

JavaScript Syntax

TOPICS

Variables · Statements and operators · Built-in Window methods · Literals

03

Writing Your Own Functions

TOPICS

Deferred vs. non-deferred code · Function syntax · Calling functions - argument passing · Scoping rules

04

BOM and the DOM

TOPICS

- JavaScript Object Model
- Browser Object Model
- Document Object Model
- Document object
- Using methods and accessing properties within the DOM

05

Controlling Program Flow and Error Handling

TOPICS

Various looping techniques · If and switch statements · Try-catch clauses

06

Forms and Events

TOPICS

Working with and validating forms · Working with form elements · Add event handlers · Event object

07

Built-in Objects

TOPICS

Strings · Dates · Math Object · Arrays

08

Maintaining State

TOPICS

Overview of state issues · Cookies · Saving · Reading

09

JavaScript and Images

TOPICS

Image object · Managing images · Rollovers

10

More on Arrays

TOPICS

FIFO vs. LIFO array handling · Sorting ·
Associative arrays

11

Appendix

TOPICS

Browser issues · JavaScript versions · Best Practices · Recommended references

WHAT IS INCLUDED

Everything You Need to Succeed

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

ABOUT 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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