Training – JavaScript course

Introduction to the JavaScript Training

Course Overview
Setting Up the Development Environment

JavaScript Language Fundamentals

Variables in JavaScript
Reserved Keywords in JavaScript
Variables, Constants, and Operators
Comments
Introduction to Object-Oriented Concepts

Hands-on Workshop: *Implementing core JavaScript features through multiple practical exercises.*

Event Handling (addEventListener)

Understanding Events
Common JavaScript Events
Adding an Event Listener
Associating Logic with an Event
Mouse Events
Keyboard Events

Hands-on Workshop: *Dynamically modifying image properties*

Debugging JavaScript

Browser Developer Tools
Firefox Extensions
Chrome Extensions

Control Structures and Loops

if…else Statements
The for Loop
The while Loop
break and continue Statements

Methods and Functions

Built-in Methods (alert(), confirm(), prompt(), etc.)
Defining a Function
Function Parameters

Local and Global Variables
The return Statement

Hands-on Workshop: *Building a timer*

Form Processing

The Form Object (Properties and Methods)
Text Inputs
Radio Buttons
Checkboxes
Dropdown Menus
Submit Button

Hands-on Workshop 1: *Form validation*

Hands-on Workshop 2: *Validating a form field using regular expressions*

JavaScript Objects, String and Array Manipulation

Overview of Built-in JavaScript Objects
The window Object
The navigator Object
The String Object
The Array Object
The Date Object
Other Built-in Objects

Hands-on Workshop: *Retrieving browser information and manipulating the window*

Document Object Model (DOM)

What Is the DOM?
Core Concepts
DOM Tree Structure
Relationship Properties
State Properties
Node Access Methods
Modifying HTML Content
Modifying HTML Element Styles

Hands-on Workshop 1: Creating a photo gallery

Hands-on Workshop 2: Building a dynamic menu

Introduction to AJAX / The Fetch API

How It Works
Asynchronous Programming

The XMLHttpRequest Object
Creating a fetch() Request
Handling Errors
async and await Syntax

Hands-on Workshop: *Reading the contents of a text file from a server*

Continue Your Learning with This Training

React.JS