About Edureka

Edureka is a leading e-learning platform providing live instructor-led interactive online training. We cater to professionals and students across the globe in categories like Big Data & Hadoop, Business Analytics, NoSQL Databases, Java & Mobile Technologies, System Engineering, Project Management and Programming. We have an easy and affordable learning solution that is accessible to millions of learners. With our students spread across countries like the US, India, UK, Canada, Singapore, Australia, Middle East, Brazil and many others, we have built a community of over 1 million learners across the globe.

About Course

Edureka's JavaScript Certification Training Course is curated by industry experts to equip you with the skills necessary to design and develop interactive websites. This course is completely hands-on and you will get acquainted with core topics such as JavaScript variables, data types, functions, objects, classes, operators, parameters, and get familiar with advanced topics such as Script validation and API testing.

JavaScript Certification Training Course Curriculum

Functions and Internal Memory Management

Learning Objective:In this module, you will be introduced to the process of function execution and memory management.

Topics:

- JavaScript Functions

- Types of functions in JavaScript

- Arrow Functions

- Rest Parameter

- Scope of a Variable

- Difference among var, let and const keywords

- Array Methods (forEach(), map(), filter(), reduce())

- Memory Management

Hands On:

- JavaScript Functions

- Array Methods

JavaScript Basics

Learning Objective:In this module, you will learn the concepts of scripting on client-side and basics of JavaScript.

Topics:

- Evolution of JavaScript

- Java Vs. JavaScript

- JavaScript Syntax

- JavaScript Popup boxes

- Datatypes and Variables in JavaScript

- Strings and Arrays in JavaScript

- Type Conversions in JavaScript

- Operators in JavaScript

- Spread Operator

- Conditional Statements in JavaScript

- Looping Statements in JavaScript

Hands On:

- JavaScript Popups

- String Manipulations in JavaScript

- Arrays in JavaScript

- Type Conversions in JavaScript

- Operators in JavaScript

- Conditional Statements in JavaScript

- Looping Statements in JavaScript

Objects and Event Handling

Learning Objective:In this module, you will learn how to create objects and handle events in JavaScript.

Topics:

- JavaScript Objects

- Object Properties

- JavaScript Object Methods

- JavaScript Object Constructors

- Object Prototypes

- JavaScript Classes

- Class Methods

- Inheritance

- Browser Object Model (BOM)

- BOM Location and History Object

- HTML Document Object Model (DOM)

- DOM Events and Event Listeners

- HTML Form Validations

- Debugging using ChromeDev Tools

Hands On:

- JavaScript Objects

- JavaScript Object Constructors

- JavaScript Classes

- BOM Objects

- DOM Event Handling

- HTML Form Validations

Libraries and Frameworks

Learning Objective:In this module, you will explore the different libraries and frameworks in JavaScript.

Topics:

- JavaScript Error Handling

- Validation

- Promises

- Async and Await Functions

- JSON Objects

- AJAX

- HTTP Requests

- Postman

- JavaScript Libraries, Frameworks and Tools

Hands On:

- Error Handling Statements and Error Objects

- Validating Input for any errors

- Promises

- Async and Await Functions

- JSON

- AJAX

Regular Expressions (RegEx) in JavaScript

Learning Objective:In this module, you will learn about Regular Expressions (RegEx) in JavaScript.

Topics:

- JavaScript Regular Expressions

- Modifiers, Brackets and Meta characters

- Quantifiers and RegExp Object

- Object Properties and Object Methods

Hands On:

- Modifiers, Brackets, and Meta characters

- Quantifiers

- Object Properties

- Object Methods

JavaScript Certification Training Course Projects

What are the system requirements for our JavaScript Certification Training?

The system requirement for this course is a system with Intel i3 processor or above, minimum 3GB RAM (4GB recommended) and an operating system can be of 32 bit or 64 bit. In addition you require a browser and a text editor.

How will I execute the practicals?

You will require a web browser that supports JavaScript and a text editor to execute the practicals.

Which practicals will be a part of this JavaScript Certification Course?

Project 1

- Creating JavaScript popups
- Performing String Manipulations
- Storing elements using arrays in JavaScript
- Converting data types implicitly and explicitly
- Using operators to make comparisons
- Using conditional statements to make decisions
- Executing code repeatedly using looping statements
- Building reusable code using JavaScript functions
- Creating JavaScript objects, constructors and classes
- Interacting with web browser using BOM properties and objects
- Handling DOM events

- Handling errors in JavaScript

- Validating user input

- Searching for data using regular expressions