

## **Building Interactive Prototypes using JavaScript**

**Modality: Self-Paced Learning**

**Duration: 20 Hours**

**SATV Value:**

**CLC:**

**NATU:**

**SUBSCRIPTION: Learn, Master**

### **About this Course:**

This beginner-level 20 Hours Training Program is specifically designed for Entry-Level Web Developers & Professionals who want to learn the core concepts & functionalities of JavaScript. Professionals with proficiency in Programming & JavaScript Web Development are always in high demand and can successfully land reputable jobs in small and large-scale IT firms & organizations.

This course provides an in-depth overview of Programming Fundamentals with the major focus on JavaScript Web Development. Through this course, professionals and candidates will learn how to effectively transform a static front-end webpage into a user-friendly & interactive webpage. The primary objective of this course is to help professionals learn how to utilize JavaScript Functionalities to augment the interactivity of front-end webpages.

This course will help professionals build familiarity with the core concepts & fundamentals of JavaScript. Upon the completion of this course, candidates will be able to easily read codes, interpret program execution, and formulate algorithms. Besides this, candidates will also learn how to effectively manipulate Document Object Models (DOM).

### **Course Objectives:**

The core objective of this course is to help professionals develop a better understanding and sound knowledge of the following key concepts:

- Fundamentals and Essentials of Programming
- JavaScript Front-end Web Development Core Concepts & Functionalities
- JavaScript HTML Document Object Model (DOM) Manipulation
- Program Execution and Algorithm Development
- Getting to Know JavaScript Operators, Variables, & Data
- JavaScript Array Iteration & Loops
- Document Object Model Modification
- App Development Elements in JavaScript
- Frameworks & Libraries of JavaScript

### **Audience:**

This course is tailored for the following group of professionals and interested candidates:

- Programmers & Web Developers
- App Developers & Coders
- IT Professionals & Experts
- Professionals striving to learn Interactive Prototype Development in JavaScript

## **Prerequisites:**

Professionals planning to enroll in the Building Interactive Prototypes using JavaScript course must have practical knowledge of Designing and Planning Technical Solutions.

## **Course Outline:**

### **Module 1 | Getting Started with JavaScript**

- Module Overview
- Intro to JavaScript
- Writing JavaScript Code
- Data, Variables and Operators
- Exercise
- Module Assessment

### **Module 2 | Programming Basics**

- Module Overview
- Conditionals
- Loops and Arrays
- Functions
- Exercise - Guessing Game
- Module Assessment

### **Module 3 | Working with the DOM**

- Module Overview
- The DOM
- Accessing Elements
- Modifying The DOM
- DOM Events
- Exercise - To-Do App
- Module Assessment

### **Module 4 | App Development with JavaScript**

- Overview
- Interactive Element Samples
- JavaScript Libraries and Frameworks
- Exercise - Build a Trivia App

## Module 5 | Final Assessment and Evaluation

- Final Assessment
- Next Steps