

## JavaScript with ES6 In a day Course

Course Duration: 8 Hours

Course Code: JS-ES6-1D

### 1. Course Overview

The **JavaScript with ES6 in a Day Course** is a **power-packed, fast-track training** designed to get you up to speed with the latest features of **ECMAScript 6 (ES6)**. In just one day, you'll gain practical knowledge of modern JavaScript syntax, features, and best practices to write **cleaner, faster, and more maintainable code**. Perfect for professionals who want to **upgrade their JavaScript skills quickly**.

### 2. What You'll Learn?

- Core differences between **ES5 and ES6**
- Writing cleaner code with **let, const, and arrow functions**
- Using **template literals** and **default parameters**
- Mastering **destructuring** and the **spread/rest operators**
- Understanding **modules and imports/exports**
- Working with **Promises, async/await** for asynchronous programming
- Iterating with **for...of, Map, Set** collections
- Hands-on coding exercises for real-world scenarios

### 3. Target Audience

- Developers familiar with JavaScript who want a **quick ES6 upgrade**.



- Frontend & backend developers working with **React, Angular, or Node.js**.
- Students or professionals preparing for **JavaScript interviews**.
- Anyone looking to strengthen their **JavaScript fundamentals** in one day.

## 4. Pre-Requisites

- Basic understanding of **JavaScript fundamentals** (variables, functions, objects).

## 5. Course Content (1-Day Intensive)

### Module 1: Introduction to ES6

- ES6 vs ES5: Why ES6 matters
- Setting up the environment (Node.js & modern browsers)

### Module 2: Variables & Functions

- let and const vs var
- Arrow functions and lexical this

### Module 3: Strings & Objects

- Template literals
- Object shorthand properties & computed keys
- Object.assign() vs spread operator

### Module 4: Arrays & Destructuring

- Array methods (map, filter, reduce)
- Array & object destructuring
- Spread & rest operators

### Module 5: Modules & Classes



- Import and export modules
- ES6 Classes and inheritance

### **Module 6: Asynchronous Programming**

- Promises in depth
- async/await with real-world examples

### **Module 7: Collections & Iteration**

- Sets, Maps, WeakSets, WeakMaps
- Iterators & for...of loop

### **Module 8: Final Hands-On Session**

- Build a **mini project using ES6 features** (e.g., a Todo app or API fetch app)

