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# JS, Advanced JS & jQuery Course Details

By [A1Training\(PT\)](#)

Course Name	JS, Advanced JS & jQuery
Category	Web Design & Development
Mode Of Classes	Online/Offline
Demo Classes	At Your Convenience
Training Methodology	20% Theory & 80% Practical
Course Duration	30-35 Hours
Class Availability	Weekdays & Weekends

For Demo Class

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## Why A1Training?

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## Introduction to Javascript

- Course syllabus, grading structure and deadlines, the tools we will use in this course i.e. browsers, web editors, version control, standards validators and cheat-sheets, collaborative tools etc.
- Pre-Test (HTML & CSS) HTML Attributes
- Introduction to Procedural Programming
- JS History
- Dynamic (JS enabled) vs. Static web sites
- Front-End “big three” : HTML, CSS and JavaScript!
- Training Environment.
- Best Approaches to Learn JS
- Editors, Where to place your JS Code? And Using CodePen
- Webkit’s Web Inspector
- Tracking down errors
- JS versions (EcmaScript5 and EcmaScript6)
- Browser Support for ES6

## **Syllabus Covered (JS)**

### **Variable, Value, Data type, Operators and Expressions**

- 1.1 Comments
- 1.2 Variables: and let keyword
- 1.3 Statements
- 1.4 Value
- 1.5 JS Keywords
- 1.6 Primitive Data types
- 1.7 Non-Primitive Data types
- 1.8 Type of Operators
- 1.9 Understanding Expressions

### **Arrays, Decision making and Loops**

- 2.0 String
- 2.1 Arrays
- 2.2 If Statement
- 2.3 If-Else Statement
- 2.4 If-Else-IF ladder and Nested If Statements
- 2.5 Switch
- 2.6 Handling repetitive tasks with loops
- 2.7 For Loop
- 2.8 While and Do-While Loop

### **Functions, Variable Scope and Objects**

- 3.0 What is Function?
- 3.1 Calling a Function



- 3.2 Parameters and default parameters
- 3.3 Scope of Variables: block level scope(ES6)
- 3.4 Predefined Functions
- 3.5 What is Objects?
- 3.6 Elements and Properties
- 3.7 Accessing an Object's properties and methods
- 3.8 Constructor and this keyword
- 3.9 Date and Math Objects

## **Events and Event Handling**

- 4.1 What are Events?
- 4.2 Listen to Events.
- 4.3 Event Handling
- 4.4 HTML5 Forms and Input tag (form validation)
- 4.5 Get and Post methods

## **What is New in ES6**

- 5.1 Constants
- 5.2 Scoping: block scope variables and functions
- 5.3 Arrow functions
- 5.4 Extended Parameter Handling
- 5.5 Template Literals
- 5.6 Enhanced Object Properties
- 5.7 Restructuring Assignment
- 5.8 Class Definition and Inheritance
- 5.9 Symbol Type
- 5.10 Iterators & For-Of Operator
- 5.11 Generators
- 5.12 Typed Arrays
- 5.13 New Built-in Methods
- 5.14 Promises
- 5.15 Internationalization & Localization



## **JQuery**

7.1 What is jQuery?

7.2 Structure of jQuery 7.3

Using jQuery and including .js  
file to HTML

7.4 Type of Selectors 7.5

Handling Events with jQuery

## **Filtering, Searching and Effects**

8.1 Selectors Recap

8.2 Element and ID Selectors

8.3 jQuery DOM Traversal

8.4 jQuery DOM Manipulation

8.5 jQuery Effects (...)

## **APIs**

9.0 Geo-location

9.1 Local Storage

9.2 Session Storage

9.3 History

## **AJAX and JQuery**

10.0 Introduction to AJAX

10.1 Asynchronous access to remote data

10.2 GET HTTP request

10.3 AJAX Load

10.4 Send Data

10.5 Callback Handlers

10.6 Change AJAX data type

10.7 Status Codes

10.8 JSON?

10.9 Accessing and Consuming remote JSON Data