

Course Name : JavaScript Intermediate to Advanced  
Duration : 2 Days  
Skill Level : Intermediate

#### Course Description :

In this JavaScript training course, we will be teaching the essentials of Javascript, exploring the object-oriented tools such as the constructor, scope, methods, and properties. Next, we dive even deeper as we explore the wonderful world of prototypes, prototype chain, and data hiding.

#### MODULE 1: INTRODUCTION

- Welcome
- What you need to know?
- Introduction to OOP

#### MODULE 2: OBJECTS IN DEPTS

- Introduction
- Create and Modify Properties
- Invoking Object Methods
- Beware of Globals
- Extracting Properties and Values

#### MODULE 3: FUNCTIONS IN RUN TIME

- Introduction
- First-Class Functions
- Callbacks
- Scope
- Closures
- Immediately-Invoked Function Ex

#### MODULE 4: CLASSES AND OBJECTS

- All Input is Tainted
- Introduction
- Constructor Functions
- The 'this' Keyword
- Setting Our Own 'this'
- Prototypal Inheritance
- Prototypal Inheritance: Subclasses

#### MODULE 5: OBJECT ORIENTED DESIGN PATTERN

- Introduction
- Mixins/Extending Object Functionally with Mixins
- Functional Mixins

- The Module Pattern
- The Revealing Module Pattern

#### MODULE 6: INTRODUCTION TO ES 2015 OR ES6

- Harmony, ES6, ES2015...
- Let and Const
- Template Literals
- Destructuring
- Object Literal Shorthand
- Iteration
- Family or For Loops
- For...of Loop
- Spread...Operator
- ...Rest Parameter

#### MODULE 7: ES6 FUNCTIONS

- Updates to Functions
- Arrow Functions
- Using Arrow Functions
- Arrow Functions Recap
- Arrow Functions and the 'this' Keyword
- 'this' and Regular Functions
- 'this' and Arrow Functions
- Default Functions Parameters
- Defaults and Destructuring
- Class Preview
- Javascript's Illusion of Classes
- Javascript Classes
- Convert a Function to a Class
- Working with Javascript Classes
- Super and Extends
- Extending Classes from ES5 to ES6
- Working with Javascript Subclasses

## MODULE 8: ES6 BUILTS-IN

- New Built-ins
- Symbols Intro
- Symbols
- Iteration & Iterable Protocols
- Sets
- Modifying Sets
- Working with Sets
- Sets & Iterators
- WeakSets
- Maps
- Creating & Modifying Maps
- Working with Maps
- Looping Through Maps
- WeakMaps
- Promises Intro
- Promises
- More Promises
- Proxies Intro
- Proxies
- Proxies vs. ES5 Getter/Setter
- Proxies Recap
- Generators
- Generators & Iterators
- Sending Data into/out of a Gen

## MODULE 9: CONCLUSION

- QA
- Useful Python Resources
- Feedback