# JavaScript Fundamentals

Duration : 2 Days

* JavaScript Basics
  + The HTML DOM
  + JavaScript Syntax
  + Literals, identifiers and reserved words
  + Basic Rules
  + Dot Notation
  + Square Bracket Notation
  + Expressions and expression evaluation
  + JavaScript Objects, Methods and Properties
  + Statements
* JavaScript Core
  + Objects and Arrays
  + JSON
  + Functions
  + Scope
* Variables, Arrays and Operators
  + JavaScript Variables
  + Working with Numbers and Strings
  + A Loosely-typed Language
  + Storing User-Entered Data
  + Arrays
  + Associative Arrays
  + Array Properties and Methods
  + JavaScript Operators
* JavaScript Functions
  + Built-in Functions
  + User-defined Functions
  + Function Syntax
  + Passing Values to Functions
  + Returning Values from Functions
  + Built-In JavaScript Objects
  + typeof Operator
* Conditionals and Loops
  + if - else if - else Conditions
  + Switch / Case
  + while Loop Syntax
  + do...while Loop Syntax
  + for Loop Syntax
  + for...in Loop Syntax
* JavaScript and the Browser
  + The Implicit window Object
  + The getElementById() Method
  + The getElementsByTagName() Method
  + The getElementsByClassname() method
  + The querySelector() and querySelectorAll() methods
  + Event Handlers
  + Creating, Inserting and Deleting Nodes
  + Element Position Manipulation
  + Scrolling
  + Manipulating CSS
  + Scripting Inline Styles
  + Scripting CSS Classes
  + Scripting Style Sheets
* JavaScript Form Validation
  + Accessing Form Data
  + Basics of Form Validation
  + The this Object
  + Validating Radio Buttons
  + Validating Checkboxes
  + Validating Select Menus
  + Focus, Blur, and Change Events
  + Focus and Blur
  + Validating Textareas
* AJAX
  + AJAX Basics
  + Xhr Overview
  + Parsing XML
  + Parsing JSON
  + Xhr Callbacks
* Error Handling
  + Catching and Throwing errors
  + Using Assertions
* Debugging JavaScript
  + Chrome developer tools overview
  + Using the console API
  + Using the JavaScript debuggers in Chrome Developer Tools
  + Using Firebug and IE Developer tools