

JavaScript

(Prereq: Should have completed HTML and CSS courses. An equivalent course completed from other training providers or school/college is acceptable with a testout)

Day -1 (lecture - 3 hrs hands-on practice - 3 hrs)

- Understand why JavaScript and client side technologies are important for building web applications in the modern world
- Write your first simple program on a browser console
- Understand common data types in JavaScript
- Understand statements and building expressions
- Understand Arithmetic, Relational and logical operators
- Understand logic controls using **if-else** blocks
- Understand loops using **for** loop, **while** loop and **do-while** loop

Day -2 (lecture - 3 hrs hands-on practice - 3 hrs)

- Understand JavaScript built-in objects; DOM, document, element
- Understand Browser Object Model; window, location, cookies
- Understand function definitions and calling functions
- Understand function closures

Day -3 (lecture - 3 hrs hands-on practice - 3 hrs)

- Understand defining classes and using prototypes
- Understand Event Handling in JavaScript
- Understand working with Forms and HTTP protocols

Day -4 (lecture - 3 hrs hands-on practice - 3 hrs)

- Understand AJAX and why that is the defacto standard in client side scripting today
- Understand HTML5 JavaScript API's
- Understand JavaScript libraries like jQuery, Angular, React etc.
- Learn about Single Page Apps

Note: Although the syllabus is shown with Day -1 through Day -4 breakup, that works for full 4 day continuous programs, the same syllabus could also be delivered for part time courses by following the same sequence of instructions and hands-on labs.

Reference books:

<https://ebooks.mobibootcamp.com/javascript/index.html>

Murach's JavaScript and jQuery:

<https://www.murach.com/shop/murach-s-javascript-and-jquery-3rd-edition-detail>