

Web Development

By Alabian Solutions Ltd
08034265103, info@alabiansolutions.com
www.alabiansolutions.com
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Day 1

JavaScript Part 1

Intro to programming
 What is programming
 Types of programming
 Machine code
 Assembly language
 High level language
 Compiled vs. Interpreted

Language of the web
History of JS
What JS can do
Statements
Variables
Primitive Data types
Variables
Primitive Data types
Variable Names
Expressions
Loose Type
Exercise Time!
Comments
Functions
Beware: Circular Dependencies
Arguments
Return Values
Variable Scope
Coding Conventions: Spacing
Getting help

Day 2

JavaScript Part 2

Control flow + More Data Types
Review: Terminology
The if statement
Comparison Operators
TruthyvsFalsey
Short-Circuit Evaluation
The if/else statement
The if/else if/else statement
The while loop
The for loop
The break statement
JS Objects and DOM



Objects
Objects Access

Day 3

JavaScript Part 3

JS Objects and DOM
Objects
Objects Access
Changing Objects
Array of Objects
Objects as Arguments
Object methods
Built in Objects
HTML Editors
HTML and CSS: Review
JS in HTML
Changing Objects
Array of Objects
Objects as Arguments
Object methods
Built in Objects
HTML Editors

Day 3

JavaScript Part 4

The DOM Tree
DOM Inspecting
DOM Access
DOM Access: Easier
DOM Access: HTML 5
DOM Nodes: Attributes
DOM Nodes: Styles
DOM innerHTML
DOM Modifying
Animation
 The window object
 Animation in JS
 Animating styles
 Stopping an animation
Events
Why we need events
Adding Events Listeners



Event Types
Event Properties
Processing form input
Waiting for window "load"
JS Best Practices
Further Study

Day 4

JavaScript Project

Day 5

Free day

Day 6

jQuery

Day 7

PHP Part 1

Introduction and basic syntax
Basic syntax
Variables
Operators
Strings
Conditional statement
 if/else
 Switch
While loop
Do-while loop
For-loop

Day 8

PHP Part 2

Functions and Global variables
 Defining a function
 Return values
 Making functions calls



Variable scope
Global variable scope

Day 9

PHP Part 3

Arrays
Array as a list of elements
Array as a key value mapping
Associative array
Array functions
For-each loop
HTTP Requests and Forms
Superglobals
Passing information to the server
When to use \$_GET vs. \$_POST

Day 10

MYSQL Part 1

Connecting to MySQL
 Making SQL queries
 SQL injection
 Retrieving information from a query

Day 11

MYSQL Part 2

A registration-login example
Register page
MySQL recap
Conclusion

Day 12

PHP/MySQL



Day 13

Wordpress/CMS

Day 14

Wordpress/eCommerce

Day 15

Oline Library System

Day 16

Result Checking Portal

Day 17

Project



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