

Web Basics – JavaScript

Lesson 00:



Lesson Objectives

Course Goals:

- At the end of this course you will be able to:
- Add interactivity to the static HTML pages
- Validate the input data provided by users, on the client side
- Manipulate style sheets on the fly to give a sophisticated look to any website

Course Non Goals:

- Server-side scripting not covered.





Prerequisites for this course are:

- Familiarity with Windows, GUI Concept and Web Browser Application
- HTML
- Experience of creation of a web page using HTML
- Object Oriented Programming Concepts



This course is designed for:

- Trainee Programmers
- Software Professionals





Day 1

- Lesson 1: Introduction to JavaScript
- Lesson 2: JavaScript Language
- Lesson 3: Working with Predefined Core Objects
- Lesson 4: Working with Arrays

Day 2

- Lesson 5: Document Object Model
- Lesson 6: Working with Document object
- Lesson 7: Working with Form object

Day 3

- Lesson 8: Working with Regular Expressions
- Certification preparation

Day 4

- Lesson 09-Object Oriented JavaScript
- Certification Preparation

Day5:

- Lesson 10-Inheritance
- Lesson 11-JavaScript with JSON



Day 6

- Lesson 12:ES6 Introduction
- Lesson: 13 New syntax-based features & New types
- Lesson: 14 Working with Classes

Day 7

- Lesson 15 Arrays & Collections
- Certification preparation

Day 8

- Lesson 16 ES6-Extensions
- Certification preparation

Day 9

- Certification Preparation
- Lesson 17Asynchronous Programming in ES6

Day 10

- Lesson 18: ES6 Meta Programming using Reflection & Proxy API



Lesson 1: Introduction to JavaScript

- **1.1. Basic Concepts of JavaScript**
- **1.2. Embedding JavaScript in HTML**
- **1.3 Writing JavaScript**

Lesson 2: JavaScript Language

- **2.1. Data Types and Variables**
- **2.2. JavaScript Operators**
- **2.3. Control Structures and Loops**
- **2.4. JavaScript Functions**

Lesson 3: Working with Predefined Core Objects

- **3.1. Data Types in JavaScript**
- **3.2. Overview of String object**
- **3.3. Math object**
- **3.4 Date object**



Lesson 4: Working with Arrays

- 4.1. Array Object
- 4.2. Properties and Methods of Array object

Lesson 5: Document Object Model

- 5.1. JavaScript Document Object Model
- 5.2. Window object

Lesson 6: Working With Document Object

- 6.1. Document Objects

Table of Contents



Lesson 7: Working with Form Object

- 7.1. Form properties, Methods & Event handlers
- 7.2. Text-Related Objects
- 7.3. Button Objects
- 7.4. Check Box and Radio Objects
- 7.5. Select Objects



JavaScript: A Beginner's Guide - by John Pollock

<http://www.w3schools.com>



Next Step Courses (if applicable)



Servlet

JSP

Other Parallel Technology Areas



VBScript