



# Basic JavaScript

This JavaScript course is intended for those with experience in programming who wish to make use of JavaScript on Internet/Intranet web pages. Delegates should be familiar with programming language concepts and have experience of writing software in other languages. This is JavaScript training; it does not set out to teach basic programming skills.

## วัตถุประสงค์

- เข้าใจพื้นฐานการใช้งาน JavaScript
- สามารถใช้ภาษา JavaScript เพิ่มลูกเล่นให้กับ Website ได้
- ประยุกต์ใช้ JavaScript พัฒนาเว็บไซต์แบบ 2.0

## กลุ่มเป้าหมาย

- ผู้ที่ต้องการพัฒนา Application ด้วย JavaScript สำหรับผู้เริ่มต้น
- IT Managers
- Developers

## ความรู้พื้นฐานของผู้อบรม

- Programming experience
- Understanding of HTML and HTTP

## ระยะเวลาในการอบรม

- 2 วัน (12 ชั่วโมง)

## ราคาคอร์สอบรม

- 3,500 บาท (ราคานี้ยังไม่ได้รวมภาษีมูลค่าเพิ่ม)



## เนื้อหาหลักสูตร

### Module 1 Introduction to JavaScript

- Web scripting
- What is JavaScript? – capabilities
- Applications of JavaScript
- JavaScript vs. JScript vs. ECMAScript
- How Client-Side Javascript Works
- Embedding JavaScript
- Simple JavaScript Features
- Variables in JavaScript
- What your Browser Does
- Simple examples

### Module 2 The core JavaScript language

- Introduction
- Application areas
- Core language items
- Character set
- Declaring variables
- Identifiers
- Reserved words
- Literals
- String literals
- Escape sequences in strings
- Case and space
- Semicolons
- Comments
- Numeric data types
- Numeric constants



- Floating point constants
- Pop-up dialog boxes and prompting for input

### **Module 3 Arithmetic and Operators**

- Data types in JavaScript
- Special numeric constants
- What are operators?
- Arithmetic operators
- The variable assignment operator
- Comparison operators/relational operators
- Comparison operator examples
- Logical operators
- Logical operator examples
- Incrementing/decrementing operators
- Examples of incrementing operators
- Examples of decrementing operators
- String operators
- Converting a string to a number
- The conditional operator (ternary operator)
- The unary minus operator
- Bitwise operators
- Variable assignment shortcuts
- Short-circuit operators
- Operator precedence and associativity

### **Module 4 JavaScript flow control**

- Objectives
- Introduction
- Blocks
- Variables in blocks
- Flow control: if...else



- Hierarchical conditions (nested if statements)
- Example: nested if statement
- Flow control: switch example
- The while loop
- Using while loops
- do/while
- Loops using for
- Additional control concepts
- The break statement
- The continue statement
- for .. in loops

#### **Module 5 JavaScript functions**

- Objectives
- What are functions for
- Built-in functions
- Function structure
- Function arguments
- Number of function arguments
- Constructing functions
- Returning values
- Local variables
- The call chain
- Recursion
- Scope of functions
- Including files

#### **Module 6 Storing data in arrays in JavaScript**

- Objectives
- Array basics
- JavaScript arrays



- Numeric array example
- Hash array example
- Array contents
- Multidimensional array example
- Array properties, features and functions
- Creating arrays
- The length property
- Array literals
- Primitive vs reference types
- Example of references
- The join() method
- The reverse() method
- Sorting an array
- Other array methods

### Module 7 JavaScript objects

- Introduction to objects
- Creating objects
- Objects, classes and instances
- The in operator
- Methods
- Methods and this
- Constructors
- Prototypes
- Using prototypes
- Objects as associative arrays
- Examining all of an object's properties
- Object literals
- Class methods
- JavaScript built-in objects: String



- JavaScript built-in objects: Date
- JavaScript built-in objects: Math

### **Module 8 Objects and events**

- Objects and events
- Typical events
- Events and HTML
- Example validation function
- Event models – various browsers
- Useful events
- Simple form validation
- Image rollover example
- Document event example
- Document object model
- Level 0 DOM – the window
- The window object
- The document object
- The Form object and form elements
- Using form objects and elements
- Naming, accessing and verifying forms and form elements
- Verifying elements
- The focus method
- Input fields, events and methods

### **Module 9 JavaScript objects, methods and properties**

- Introduction
- Document
- Window
- window.navigator
- window.location
- window.history



- Window methods
- Opening new windows
- Timeouts
- Intervals
- Manipulating frames
- Saving state with cookies
- Detecting JavaScript with cookies
- Privacy and security

### **Module 10 Tips and tricks**

- Focusing a form when the page loads
- Menus which jump to a new page
- Image preload
- Double image rollover
- Double image rollover: code
- Mouse-over status-bar text
- Paired <select> boxes

### **Module 11 The JavaScript DOM (Document Object Model)**

- Nodes and Attributes
- HTML and the DOM
- DOM Conformance
- Navigating a Document
- Modifying Documents
- Adding Content
- Document Fragments

### **Module 12 CSS and JavaScript**

- Naming Conventions and Properties
- Positioning and Size
- Computed Styles



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## COURSE OUTLINE

รายละเอียดหลักสูตรอบรม

- The Z-Index
- Visibility
- Animation