



## Aspect Training

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YOUR COURSE, YOUR WAY - MORE EFFECTIVE IT TRAINING

# AJAX and JavaScript Introduction

**Duration: 3 days**

### Overview:

AJAX - Asynchronous JavaScript and XML is a synergy of multiple technologies and communication with the server without a page refresh, enabling a rich and responsive web-based client application.

Aspect Training's AJAX Training course covers AJAX related technologies including JavaScript, DOM, CSS, XML etc., focusing on Object Oriented JavaScript and the main AJAX object: XMLHttpRequest.

Aspect Training's AJAX and JavaScript training course will take you through the different technologies that come together to form AJAX. The course will also show you how to bring these technologies together to create rich and exciting web sites.

### Prerequisites:

This course is designed for Web developers who already have programming experience of JavaScript front end development.

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### Topics:

#### 1 - AJAX - Asynchronous JavaScript and XML - Overview

Web Applications - Pre and Post AJAX

AJAX in the Real World

Alternatives to AJAX

#### 2 - XML In A Nutshell

Syntax

Rules

#### 3 - JavaScript Refresher

Primitive Data Types and Reference Types

Variables

Loops

Function Definition and Function Call

Objects

Expressions, Operators and Escape Sequences

## **4 - Document Object Model (DOM)**

Window Object

HTML & XML DOM

Node

Element

Accessing Element Nodes

innerHTML

Properties of Element and Text Nodes

Node Attributes

Event Handling

Key Word - this

Removing Nodes

Creating New Nodes

Node Methods

## **5 - XMLHttpRequest Object**

XMLHttpRequest Instantiation

XMLHttpRequest open() Method

Asynchronous vs Synchronous Requests

Callback Function

readyState

## **6 - CSS Refresher**

Syntax

Units

Selectors

Positioning properties

float Property

Types of Positioning

## **7 - XML and AJAX**

Creating a DOM Document with JavaScript

load XML

Receiving XML Responses from the Server

Passing XML to the Server

## **8 - Object-Oriented JavaScript**

Multiple Simultaneous Asynchronous Requests

Prototype

Extending BuiltIn Objects

Object-Oriented XMLHttpRequest

## **9 - XSLT**

Overview

XSLT in the Browsers

Advantages and Disadvantages

## **10 - XPath**

Overview