

AJAX Training

Objective

On completion of this AJAX Training course, delegates will:

- Understand the relationship between the different protocols that comprise AJAX
- Learn best practices in cross browser coding
- Use AJAX to develop web applications for a dynamic user experience

Details

Duration: 3 Days

Course PreRequities

Delegates should have attended our [HTML & CSS Training](#) and [JavaScript Training](#) courses, or have equivalent experience.

Course Content

Essentials of AJAX

- The key elements of AJAX
- Orchestrating the user experience with JavaScript
- Defining look and feel using CSS
- Organising the view using the DOM
- Loading data asynchronously using XML technologies
- What sets AJAX apart

The HTML Document Object Model (DOM)

- Accessing Nodes
 - Accessing Element Nodes
 - Accessing Attribute Nodes
 - getAttribute
 - Accessing Nodes by Type, Name or Value
 - Accessing Nodes by Class Name
- Removing Nodes from the DOM
 - Dom Differences: The Whitespace Problem
- Creating New Nodes
- Using iFrames to perform data trafficking
- Updating HTML documents using hidden frames
- Implementing common AJAX patterns

Introducing order to AJAX

- Examples of re-factoring
- Model-View-Controller
- Third-party libraries and frameworks

The Page as an Application

- The View in an AJAX application
- The Controller in an AJAX application
- Models in an AJAX application
- Generating the View from the Model

The user experience

- XML and AJAX
 - Creating a DOM Document with JavaScript
 - Accessing, Creating and Modifying XML Nodes
 - Receiving XML Responses
 - Passing XML to the Server
 - Conclusion
- OO JavaScript and Re-factoring AJAX
 - Illustrating the Problem
 - Object-Oriented JavaScript
 - JavaScript Classes
 - Prototypes
 - Extending Built-in Objects
 - Refactoring the AJAX Request Code
- JavaScript Object Notation (JSON)
 - Arrays
 - Objects
 - Arrays in Objects
 - Objects in Arrays
 - JSON Syntax
 - JSON Parsers
- AJAX Examples
 - Form Validation
 - Navigating Through Records