

# Using AJAX 4 and jQuery with Visual Studio 2010

Course Length: 3 days

Price: \$2,250

## Summary

AJAX has brought rich inactive content to web pages and web applications. The newest vision of Visual Studio, Visual Studio 2010 brings many pluses to creating AJAX web content. This course covers some of the basics for using AJAX, dealing with server side and client side AJAX controls and working with jQuery. This course will show you how to use the UpdatePanel controls, page methods and other items. The AJAX Control Toolkit section will explain the controls, extenders, and script manager. The next part of the course explores the jQuery Library, which Microsoft has fully embraced as its client-side JavaScript library. You'll learn about the library and how to put it to use, including how to write effective selectors to create matched sets of elements. Then you'll learn how to bring a page alive with jQuery, using features like changing page content, animating elements on the page, and using the jQuery UI Library for even more effects. One of the original motivations for jQuery was to support AJAX, and the library includes rich support for asynchronous calls to the server. You'll also learn how to make use of various other jQuery extensions and see how to build your own plugin. Student materials are available in both Visual Basic.NET and C#. Please specify your preferred programming language when you register so we can be sure to order the right materials for you.

## Who Should Attend?

This course assumes that you are familiar and experienced with Microsoft's .NET Framework and ASP.NET development tools. You should be familiar with Web development and understand how HTTP and HTML work to produce Web pages for the user. You should have experience writing applications with ASP.NET 3.5, 4.0, or later Web forms, and be familiar with how ASP.NET processes page requests, and have strong experience with .NET Framework 3.5, 4.0, or later programming. You should have experience with Visual Studio 2008, 2010, or later for building Web application projects. Experience with building database applications using these tools will be helpful, although not strictly necessary. You should also have some experience with writing JavaScript.

## Course Outline

### AJAX Fundamentals

- Introducing AJAX
- Essential JavaScript
- Server and Client-Side AJAX

### Server-Side AJAX: UpdatePanel and Related Controls

- Partial Page Rendering
- The ScriptManager Control
- The UpdatePanel Control
- Other Server-Side AJAX Controls

### Creating Rich AJAX Applications

- Using Multiple UpdatePanel Controls
- Using Page Methods
- AJAX History and the Browser Back Button

### ASP.NET AJAX Control Toolkit

- Introduction to the AJAX Control Toolkit
- Toolkit Controls and Extenders
- ToolkitScriptManager Control

### The jQuery Library

- jQuery for the ASP.NET Developer
- Using jQuery
- Selectors, Wrapped Sets and Chains

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## Bring a Web Page Alive with jQuery

- Work with Page Elements
- Use Animations and Effects
- The jQuery User Interface Library

## Using jQuery's AJAX Features

- AJAX Made Simple with jQuery
- GETs, POSTs and Data Formats
- Taking Full Control with the AJAX Method

## jQuery Extensions

- jQuery Extensions in Microsoft's World
- Building Your Own Extensions