This two-day course provides a practical introduction to developing rich Internet applications using ASP.NET AJAX and C#. Because of the extensive support provided by Microsoft's AJAX tools, an ASP.NET programmer can get up and running in this new environment quickly. This course shows the way. It is current to ASP.NET 4.5.1 and Visual Studio 2013. The course includes an introduction to the JavaScript library jQuery UI and the open source components JuiceUI that encapsulate jQuery UI widgets for use by ASP.NET programmers.

Course Objectives:
- Gain a thorough understanding of the philosophy and implementation of rich Internet applications
- Explain the benefits of AJAX in creating non-blocking and interactive Web applications
- Use ASP.NET AJAX and Visual Studio to easily implement AJAX applications
- Create visually rich and attractive Web applications with controls in the AJAX Control Toolkit
- Create interactive web pages using jQuery UI and JuiceUI

Audience: ASP.NET developers who wish to become productive in ASP.NET AJAX.

Prerequisites: A good working knowledge of Web application development using ASP.NET, Visual Studio and C#. The student should have a basic knowledge of HTML. Some familiarity with ADO.NET, and JavaScript would be helpful for understanding the case study and some of the examples

Number of Days: 2 days

1   Rich Internet Applications and AJAX
Desktop Applications
Web Applications
Rich Client Applications
Using Plug-Ins
Using JavaScript
Asynchronous Communication
AJAX
Microsoft's AJAX Technologies
ASP.NET Enhancements
A Simple AJAX Application
2   ASP.NET AJAX Client Library
Components of Microsoft's AJAX
        Support
ScriptManager
Client-Side Page Lifecycle
Debugging Support
JavaScript Extensions
Object-Oriented Programming Support
Global API Shortcuts
Embedded JavaScript Resources

3   Partial Page Rendering
UpdatePanel Control
Update Modes
Triggers
Using a Timer
PageRequestManager
Partial Page Update Lifecycle
UpdateProgress Control
Limitations and Performance Issues
4   Remote Method Calls
Web Service Methods
Handling Errors
Using Context
Page Methods
JSON Serialization
ScriptMethod Attribute
5   AJAX Control Toolkit
Using ACT Controls in Visual Studio
Extender Controls
Use of Style Sheets
Page Layout Controls

ASP.NET AJAX Using C# (VS2013)