ADO.NET Using C# (VS 2013)

This three day, intensive course teaches the essential elements of ADO.NET such that, at the end of the course, the programmer is able to utilize its tremendous database manipulation powers to build effective database applications. The course includes a major case study demonstrating the use of ADO.NET in a realistic setting. It is current to .NET 4.5.1, Visual Studio® 2013 and SQL Server® 2012.

Course Objectives:

- Understand the architecture and main classes of ADO.NET.
- Gain fluency in programming ADO.NET using C#.
- Gain a thorough understanding of the use of disconnected DataSets for building highly scalable applications.
- Acquire a working knowledge of the tight coupling of XML with ADO.NET.
- Learn how to use additional features in ADO.NET, including asynchronous operations, multiple active result sets, and bulk copy.
- Acquire a working knowledge of LINQ and the Entity Framework
- Implement a realistic case study that ties together many concepts of ADO.NET in a practical demonstration.

Audience: C# .NET developers needing to communicate with datasources.

Prerequisites: A basic knowledge of SQL and of programming the .NET Framework using C#. The student should also understand the fundamentals of XML. To get full benefit from the examples in the course the student should be able to write simple Windows Forms applications. A working knowledge of SQL Server is also desirable.

Number of Days: 3 days