

Course Description: This one day information-packed seminar provides an overview of Microsoft's new .NET technology. It should prove of value to developers and managers who are starting on a .NET project or who are evaluating this technology. The course opens with a discussion of the fundamental issues in developing applications in the web environment, leading to the concept of applications as a service. The .NET Framework is outlined, including the class library and runtime. The major .NET languages are introduced. ASP.NET is described, including the use of Web Forms and Web Controls to simplify developing and deploying web applications. The central role of XML and SOAP is described, including a discussion of the creation and use of Web Services. The seminar concludes with a survey of additional .NET services, Windows Forms, ADO.NET, interoperability with COM and the Win32 API and .NET Security. The seminar includes demonstrations of the development of Web Services and programming in C# and VB.NET using Visual Studio.NET. Seminar attendees will be provided with comprehensive notes and programming examples.

Who Should Attend:**Prerequisites:**

Attendees should be experienced software developers, architects or managers.

Benefits of Attendance:

Upon completion of this course, students will be able to:

- Understand the application development trends that drive .NET architecture.
- Learn the basic architecture of .NET.
- Become oriented to the major components of .NET and the development languages and tools.

Course Outline:**What Is Microsoft .NET?**

Applications in the Internet Age
Tools for Today's Applications
A Robust Windows Platform
.NET Programming Platform
.NET Enterprise Servers

.NET Framework

Evolution to .NET
.NET Framework Overview
Common Language Runtime
.NET Framework Class Library
Common Language Specification
.NET Languages
.NET Framework SDK
Visual Studio.NET

Common Language Runtime

Goals of CLR
Assemblies
Common Type System
Metadata
Virtual Execution System
Intermediate Language
Managed Code
Just-In-Time Compilation
Garbage Collection

.NET Languages

C#
Visual Basic.NET
Visual C++.NET
JScript.NET
Perl.NET

ASP.NET And Web Services

Web Forms
HTML Controls
Web Controls
Collaborative Web Applications
Moving from Web Sites to Web Services
Simple Object Access Protocol (SOAP)
Web Services Description Language
Discovery of Web Services

Other .NET Services

Windows Forms
ADO.NET
Interoperating with Win32
Interoperating with COM
.NET Security