

.NET Overview

Course No.

9402

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.

Audience

Attendees should be experienced software developers, architects, or managers.

Objectives

- 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

Major Topics

- What is Microsoft .NET
- .NET Framework
- Common Language Runtime
- .NET Languages
- ASP.NET and Web Services
- Other .NET Services

Format

Lecture and demonstration

Duration

1 day



Course Contents

1. What is Microsoft .NET?

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

2. .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

3. Common Language Runtime

- Goals of CLR
- Assemblies
- Common Type System
- Metadata
- Virtual Execution System
- Intermediate Language
- Managed Code

- Just-In-Time Compilation
- Garbage Collection

4. .NET Languages

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

5. 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

6. Other .NET Services

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

