

.NET Framework Introduction

1 day course

Overview

You will understand the .NET Framework components and the development tool, Visual Studio.NET, and discuss their role in enabling and supporting the .NET paradigm.

Prerequisites

To ensure your success, we recommend that you first take the following Systematix course or have equivalent knowledge Object-Oriented Programming Principles

Target student

This course is for you if you are familiar with object-oriented programming concepts and have an interest in .NET and Visual Studio.NET.

What's next

This is the first course in this series. Visual Studio .NET Introduction is the next course in this series.

Course Content:

Introducing .NET-The Big Picture

- Characterize The .NET Paradigm
- Describe Web Services

Building .NET-The Framework Components

- Describe the .NET Framework
- Describe the Common Language Runtime (CLR)
- Compare the .NET Class Framework to a Language-Specific Class Library
- Decide When to Use .NET Windows Forms
- Describe the Uses of Web Forms and Web Services
- Identify When to Use Console Applications

Managing .NET-The Common Language Runtime Components

- Identify the Components of the CLR
- Describe Microsoft Intermediate Language (MSIL)
- Distinguish Between the .NET Compilers
- Describe How the CLR Manages Memory

Taking Advantage of the Common Language Runtime

- Identify Advantages of RAD
- Describe Multiple Language Support in .NET
- Explain Cross-Language Interoperability
- Explain Garbage Collection
- Describe Structured Error-Handling

Unifying .NET-The Class Framework

- Describe the .NET Class Framework
- Describe the Purpose of Namespaces
- To Use or Not to Use Inheritance
- Differentiate Between Interface- and Inheritance-Based Polymorphism
- Indicate When Overloading is Used

Deploying .NET Applications

- Describe Component Deployment
- Describe DLL Hell
- Describe an Assembly

Getting Started with Visual Studio.NET

- Access Online Resources
- Set Up a VB.NET Windows Forms Application

- Create a Simple .NET Application
 - Compile and Debug
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