
Programming with C#

Varighed: 5 Days Kursus Kode: M2124

Beskrivelse:

This five-day instructor led, hands-on course is designed to provide students with the knowledge and skills they need to develop C# applications for the Microsoft .NET Platform. The course focuses on C# program structure, language syntax, and implementation details. C# was created to be the programming language best suited for writing enterprise applications for .NET. C# combines the high productivity of Microsoft Visual Basic with the raw power of C++. It is a simple, object-oriented, and type-safe programming language that is based on the C and C++ family of languages

Målgruppe:

This course is intended for experienced developers who already have programming experience in C, C++, Visual Basic, or Java. These developers will be likely to develop enterprise business solutions

Agenda:

- List the major elements of the .NET Framework and explain how C# fits into the .NET Platform
 - Analyze the basic structure of a C# application and be able to document, debug, compile, and run a simple application
 - Create, name, and assign values to variables
 - Use common statements to implement flow control, looping, and exception handling
 - Create methods (functions and subroutines) that can return values and take parameters
 - Explain the basic concepts and terminology of object-oriented programming
 - Use common objects and reference types
 - Create, initialize, and destroy objects in a C# application
 - Build new C# classes from existing classes
 - Create self-contained classes and frameworks in a C# application
 - Define operators, use delegates, and add event specifications
 - Implement properties and indexes
 - Use predefined and custom attributes
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Forudsætninger:

Delegates are required to meet the following prerequisites:

- Experience with programming in C, C++, Visual Basic, Java, or another programming language
 - Familiarity with the Microsoft .NET strategy as described at the Microsoft .NET Web site: <http://www.microsoft.com/net/>
 - Familiarity with the .NET Framework as described on the MSDN Magazine Web site:
 - <http://msdn.microsoft.com/msdnmag/issues/0900/Framework/Framework.asp>
 - <http://msdn.microsoft.com/msdnmag/issues/1000/Framework2/Framework2.asp>
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Indhold:

Overview of the Microsoft .NET Platform

- Introduction to the .NET Platform
- Overview of the .NET Framework
- Benefits of the .NET Framework
- The .NET Framework Components
- Languages in the .NET Framework

Overview of C#

- Structure of a C# Program
- Basic Input/Output Operations
- Recommended Practices
- Compiling, Running, and Debugging

Using Value-Type Variables

- Common Type System
- Naming Variables
- Using Built-In Data Types
- Creating User-Defined Data Types
- Converting Data Types

Statements and Exceptions

- Introduction to Statements
- Using Selection Statements
- Using Iteration Statements
- Using Jump Statements
- Handling Basic ExceptionsRaising Exceptions

Methods and Parameters

- Using Methods ; Parameters
- Using Overloaded Methods

Arrays

- Overview of Arrays
- Creating ; Using Arrays

Essentials of Object-Oriented Programming

- Classes and Objects
- Using Encapsulation
- C# and Object Orientation
- Defining Object-Oriented Systems

Using Reference-Type Variables

- Using Reference-Type Variables
- Using Common Reference Types
- The Object Hierarchy
- Namespaces in the .NET Framework
- Data Conversions

Creating and Destroying Objects

- Using Constructors
- Initializing Data
- Objects and Memory
- Resource Managements

Inheritance in C#

- Deriving Classes
- Implementing Methods
- Using Sealed Classes ; Interfaces
- Using Abstract Classes

Aggregation, Namespaces, and Advanced Scope

- Using Internal Classes, Methods, and Data
- Using Aggregation ; Namespaces
- Using Modules and Assemblies

Operators and Events

- Introduction to Operators
- Operator Overloading
- Creating and Using Delegates
- Defining and Using Events

Properties and Indexers

- Using Properties
- Using Indexers

Attributes

- Overview of Attributes
- Defining Custom Attributes
- Retrieving Attribute Values

Flere Informationer:

For yderligere informationer eller booking af kursus, kontakt os på tlf.nr.: 44 88 18 00

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