

C# Developer

Cursusduur: 5 Dagen Cursuscode: C-SHARP Trainingsmethode: Virtual Learning

Beschrijving:

C# Developer Course Overview

The C# Developer course comprises sessions dealing with C# applications, variables and operators, decision and loop constructs, arrays, enums, methods, objects, classes, structs, delegates, events, object-oriented principles, exception handling, file IO, LINQ. Exercises and examples are used throughout the course to give practical hands-on experience with the techniques covered.

Virtueel en Klassikaal™

Virtueel en Klassikaal™ is een eenvoudig leerconcept en biedt een flexibele oplossing voor het volgen van een klassikale training. Met Virtueel en Klassikaal™ kunt u zelf beslissen of u een klassikale training virtueel (vanuit huis of kantoor) of fysiek op locatie wilt volgen. De keuze is aan u! Cursisten die virtueel deelnemen aan de training ontvangen voor aanvang van de training alle benodigde informatie om de training te kunnen volgen.

Doelgroep:

Who will the Course Benefit?

This course is aimed at anyone who wants to learn C# as a first language and developers who want to migrate to C# from another language, particularly those with little or no object-oriented knowledge.

Doelstelling:

■ Course Objectives

■ This course aims to provide the delegate with the knowledge to be able to produce simple C# applications that exploit the core elements of the language including variables, expressions, selection and iteration, arrays, methods, classes and objects, structs, encapsulation, inheritance and polymorphism, exceptions, file IO and LINQ.

Vereiste kennis en vaardigheden:

■ Delegates attending this course should have some previous programming experience and be able to define general programming concepts including compilation, execution, variables, arrays, sequence, selection and iteration, navigate the filesystem (on the command line ideally), edit and save text files and browse the web. This knowledge can be obtained by attendance on the pre-requisite Introduction to Programming course.

Vervolg cursussen:

Further Learning

■ ASP.NET Core

Cursusinhoud:

C# Developer Training Course Course Contents - DAY 1

Course Introduction

- Administration and Course Materials
- Course Structure and Agenda
- Delegate and Trainer Introductions

Session 1: INTRODUCING C#

- History of the Language
- C# and .NET
- Common Intermediate Language
- Common Language Runtime
- Compiling and Running Code
- Development tools

Session 2: VARIABLES

- Using Namespaces
- Declaring Variables
- Value and Reference Types
- Datatypes
- Variable Scope

Session 3: OPERATORS

- Arithmetic Operators
- Unary Operators
- Concatenation Operators
- Comparison Operators
- Logical Operators

Session 4: DECISIONS

- If Statements
- Switch Statements C# Developer Training Course Course Contents - DAY 2

Session 5: LOOPS

- Types of Loop
- Break and Continue Statements

Session 6: ARRAYS AND ENUMS

- Populating Arrays
- Looping Through Arrays
- Working with Enums

Session 7: METHODS

- Fields and Methods
- Method Parameters
- Method Overloading
- Optional Parameters

Session 8: OBJECTS

- Creating Objects
- Instance Fields
- Instance Methods C# Developer Training Course Course Contents - DAY 3

Session 9: CLASSES AND STRUCTS

- Class Structure
- Constructors
- Using Structs

Session 10: ENCAPSULATION

- Access Modifiers
- Getters and Setters
- Properties

Session 11: STATIC MEMBERS

- Static Fields
- Static Methods
- Static Classes
- Static Context

Session 12: INHERITANCE AND POLYMORPHISM

- Object Oriented Programming
- Extending Classes
- Inheritance Modifiers
- Polymorphism C# Developer Training Course Course Contents - DAY 4

Session 13: ABSTRACTION AND INTERFACES

- Abstract Methods
- Abstract Classes
- Using Interfaces
- Interface Polymorphism

Session 14: EXCEPTION HANDLING

- Throwing Exceptions
- Catching Exceptions
- Using try, catch and finally
- Custom Exceptions

Session 15: STRINGS AND DATES

- The String Class
- Using StringBuilder
- Date Handling
- Formatting Numbers

Session 16: COLLECTIONS

- Working with Collections
- Generic Collections
- The List Class
- The Dictionary Class C# Developer Training Course Course Contents - DAY 5

Session 17: DELEGATES, LAMBDA AND EVENTS

- Creating Delegates
- Lambda Expressions
- Events and Event Handlers

Session 18: FILE IO

- I/O Streams
- Handling Files
- Serialising and Deserialising Data

Session 19: LINQ

- Query Expressions
- Ordering and Projection
- Grouping and Joins
- LINQ to XML

Nadere informatie:

Neem voor nadere informatie of boekingen contact op met onze Customer Service Desk 030 - 60 89 444

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