

Beginning Modern C# and .NET Core Development

Cursusduur: 3 Dagen Cursuscode: GK2346

Beschrijving:

The release of .NET Core means that cross-platform development with C# is finally here. In this fast-paced practical course you'll work through a rapid introduction to C# followed up by an overview of .NET in the context of two real-world applications. Each component of the course has been carefully designed to build skills and capabilities that are in high commercial demand. You'll learn how to build and deploy Universal Windows Platform applications for desktop environments, as well as cutting-edge web development techniques with ASP.NET Core MVC. As you progress you'll find helpful tips and tricks, as well as useful self-assessment material, exercises and activities to help benchmark your progress and reinforce what you've learned. If you're a pragmatic developer with a few years of experience working with another object-oriented programming language, this course will equip you with the skills you need to succeed with C# and .NET in the modern workplace.

Doelgroep:

This course is targeted at professional software developers or programming and developer enthusiasts wanting to get started with building and deploying advanced applications using the modern-day .NET framework. The prospective students will be taught about the intricacies of .NET and other associated technologies such as C#, and ASP.NET. It is imperative that a prospective student is well acquainted with basic object-oriented programming principles. Additionally, it is advised, though not completely necessary, that one possess a very basic idea of the .NET stack before commencing with this course.

Doelstelling:

- Examine core language features such as types, variables, and control constructs
 - Use object-oriented features such as class, interface, protection, and inheritance
 - Perform error notification and error handling using exceptions
 - Use properties to implement the private data/public accessor pattern
 - Use namespaces to group related types
 - Use delegates and events to implement callbacks
 - Override Object class methods such as ToString
 - Avoid dll conflicts during deployment
 - Use dynamic binding and polymorphism to write generic code (i.e., less code!)
 - Distinguish between "implementation inheritance" and "interface inheritance"
 - Use ADO.NET to connect to SQL Server and run a simple query
 - Build a basic Windows Forms GUI
-

Vereiste kennis en vaardigheden:

.

Cursusinhoud:

Lesson 1: An Overview of Visual Studio 2017

- Understanding .NET
- Fundamentals of Visual Studio 2017

Lesson 2: Introducing C#

- Exploring the Basics of C#
- Declaring Variables
- Building Console Applications

Lesson 3: Controlling the Flow, Converting Types, and Handling Exceptions

- Understanding Selection Statements
- Understanding Iteration Statements
- Casting and Converting Between Types
- Handling Exceptions
- Checking for Overflow

Lesson 4: Using .NET Standard Types

- Using Assemblies and Namespaces
- Debugging and monitoring
- Storing Data with Collections
- Debugging Tools
- Monitoring Performance and Resource Usage

Lesson 5: .NET Deep Dive

- Understanding OOP
- Building Class Libraries
- Implementing Interfaces and Inheriting Classes

Lesson 6: Databases

- Relational Database Management Systems
- Working with Entity Framework Core
- Understanding Universal Windows Platform

Lesson 7: Building Universal Windows Platform Apps Using XAML

- Understanding Universal Windows Platform
- Understanding XAML
- Creating an Application for UWP
- Using Resources and Templates
- Data Binding
- Animating with Storyboards
- Testing in Emulators

Lesson 8: Building Web Applications Using ASP.NET Core MVC

- Understanding ASP.NET Core
- Exploring an ASP.NET Core MVC Web Application
- ASP.NET Core MVC Controllers
- ASP.NET Core MVC Models
- ASP.NET Core MVC Views
- Taking ASP.NET Core MVC Further

Nadere informatie:

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

info@globalknowledge.nl

www.globalknowledge.com/nl-nl/

Iepenhoeve 5, 3438 MR Nieuwegein