Programming with .Net Introduction

Category: Software Development & Programming | **Vendor:** Various

Duration: 24.00 hours (3 days) **19.5 CPD Hours** **Rating:** ⭐ 4.6 (5,878 reviews)

Course Information

Delivery Format: Instructor Led - Online

Course Overview

Gain hands-on experience with C#, Visual Basic, Windows programming, and ASP.NET. In this training course, you will leverage Visual Studio for code generation, user interface design, testing, and debugging, as well as building and accessing SQL Server databases. Visual Studio and the .NET Framework provide a suite of tools that allows you to develop modern software applications for your organisation.

About This Course

Gain hands-on experience with C#, Visual Basic, Windows programming, and ASP.NET. In this training course, you will leverage Visual Studio for code generation, user interface design, testing, and debugging, as well as building and accessing SQL Server databases. Visual Studio and the .NET Framework provide a suite of tools that allows you to develop modern software applications for your organisation.

Who Should Attend

This course uses Visual Studio 2015 but is useful to those using an earlier version

Prerequisites & Entry Requirements

General Prerequisites:

- Basic computer skills and some basic understanding of the programming process and how computer programs work

- Prior programming experience

Learning Outcomes

Upon successful completion of this course, participants will be able to:

- Design and program web and Windows applications with .NET and Visual Studio

- Write object-oriented code using C# and Visual Basic

- Leverage Visual Studio for code generation, user interface design, testing, and debugging

- Build SQL Server databases and access them using .NET code

Detailed Course Outline

.NET Programming Fundamentals

Building applications with Visual Studio

- Analysing the .NET Framework

- Managing projects with Solution Explorer

- Setting project properties and adding references

- Adding files, folders and code

- Compiling, debugging and testing programs

Coding object–oriented applications

- Dividing code into classes

- Adding fields, methods, properties, events and constructors

- Defining scope and visibility

VB and C# Language Syntax

Working with data types and conversions

- Strings

- Dates and time

- Integers

- Real numbers

- Booleans

- Performing calculations with mathematical operators

- Converting between data types

Controlling program execution

- IF statements

- Writing complex criteria expressions

- CASE (switch) statements

- For...Next loops

- Do While...loops

Handling errors

- Throwing exceptions

- Stepping through code with the debugger

- Try...Catch...Finally error handling

- Commenting code

Crafting Windows Applications

Windows application basics

- Creating forms and controls

- Navigating with menus

- Automating code with the Toolbox and Properties window

Event–driven programming

- Handling events from the user interface

- Declaring and raising events

Designing Object–Oriented Applications

Separating application responsibilities into classes

- Single responsibility principle

- Inheriting a base class

- Overriding methods in derived classes

Reusing code from multiple projects

- Creating a class library in Visual Studio

- Setting references

Programming Web Applications with ASP.NET

Constructing ASP.NET websites with Visual Studio

- Writing HTML pages and forms

- Maintaining consistency with Master Pages

- Designing pages with ASP.NET controls

- Styling sites with ASP.NET themes

Processing ASP.NET Web Forms

- Displaying data and gathering user input

- Activating Web Forms with events

- Maintaining variables with sessions

- Automating data access with ASP.NET Data Binding

Controlling website access

- Configuring Web Forms security

- Automating user account creation

Incorporating Relational Databases

Relational database concepts

- Employing databases for fast, efficient storage

- Selecting, inserting, updating and deleting query syntax

Creating a SQL Server database

- Adding tables, fields and indexes

- Defining primary and foreign key relationships

Accessing the database with Entity Framework

- Connecting to the database

- Storing user information

- Retrieving existing records

Deploying .NET applications

- Publishing applications with ClickOnce

- Moving ASP.NET applications to the web

Skills You Will Learn:

- Design and program web and Windows applications with .NET and Visual Studio

- Write object-oriented code using C# and Visual Basic

- Leverage Visual Studio for code generation, user interface design, testing, and debugging

- Build SQL Server databases and access them using .NET code

Frequently Asked Questions

Q: What delivery options are available for Programming with .Net Introduction?

We offer multiple delivery formats:

- Live Instructor-Led Classroom Online (Virtual/Live Online)
- Traditional Instructor-Led Classroom Training (ILT)
- On-site delivery at your offices anywhere in United Kingdom
- Private dedicated courses customized for your team

Q: How many CPD hours does this course provide?

The 3-day Programming with .Net Introduction course provides up to 19.5 CPD hours of structured learning. CPD certificates can be provided upon request.

Q: What is the duration of the Programming with .Net Introduction training?

The training takes place over 3 day(s), with each day lasting approximately 24.00 hours including breaks for lunch and refreshments.

Q: Do you provide corporate training for Programming with .Net Introduction?

Yes, we provide corporate training, dedicated training, and closed classes for Programming with .Net Introduction. Training can take place anywhere in United Kingdom including London, Manchester, Birmingham, Edinburgh, or live online allowing teams from across United Kingdom or internationally to attend.

Q: What related terms do people search for?

Popular related searches include: Programming with .Net Introduction, .NET Development, PNI

Q: Why choose Nexus Human for Programming with .Net Introduction?

Nexus Human is recognized as one of the leading training providers. Our trainers have won multiple awards including:

- Small Firms Best Trainer Award
- National Training Partner of the Year (Ireland) - Multiple Years
- Global Top 30 Instructor Awards (2012, 2019, 2021)
- Tech Excellence Award Nominations
- Learning Performance Institute (LPI) External Training Provider Sponsor 2024

Q: Are there any discount codes available?

Yes! Use discount code **PENPAL5** when booking your Programming with .Net Introduction training. Please note that only one discount code can be used per booking and cannot be combined with other special offers.

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