



# C# Programming Program

## Build Windows Apps, Web APIs & Enterprise Solutions with C#.

C# (pronounced "C-sharp") is a **modern, object-oriented, type-safe language** developed by Microsoft. It is widely used for developing **Windows applications, games with Unity, cloud-based solutions, APIs, and enterprise-grade software** using the .NET platform.

At **Certed Technologies**, our **C# Programming Program** provides **hands-on experience with real-world use cases**, preparing you for roles in **desktop, web, cloud, and game development** with a strong foundation in OOP and .NET technologies.

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## Why C#? Why Now?

C# is the **go-to language for building scalable enterprise software** in the Microsoft ecosystem. It integrates seamlessly with Visual Studio, .NET, Azure, and Unity.

### Why C# remains critical in 2025:

-  Core to **Microsoft's tech stack** (.NET, ASP.NET, Azure)
  -  Widely used in **game development with Unity Engine**
  -  Backbone of countless enterprise applications and ERPs
  -  Supports cloud-native, cross-platform, and desktop solutions via .NET 6/7
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## Learn from .NET & C# Experts

Our instructors are **experienced .NET developers, game programmers, and enterprise architects**, offering a perfect mix of **theory + practicals + project implementation** using C#.

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## Program Highlights

Feature	Details
Duration	2 Months / 60–70 Hours
Delivery Mode	Hybrid (Online + Offline)
Tools Covered	Visual Studio, .NET SDK, GitHub, SQL Server
Project Work	4 Mini Projects + 1 Capstone Project
Certifications	Certed Technologies Certificate + C# Developer Badge
Career Support	Resume Assistance, .NET Interview Prep, Project Portfolio

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## What You'll Learn

### Module 1: Introduction to C# and .NET

- What is C#?
- Overview of .NET Architecture
- Setting Up Visual Studio
- Writing & Running Your First Program

### Module 2: Data Types, Variables & Control Flow

- Value vs Reference Types
- Operators and Expressions
- Conditional Statements
- Looping Constructs (for, while, do-while, foreach)

### Module 3: Methods, Arrays & Strings

- Creating and Calling Methods

- Pass by Value vs Reference
- Arrays & Collections
- String Handling & StringBuilder

## **Module 4: Object-Oriented Programming in C#**

- Classes and Objects
- Constructors, Destructors
- Inheritance, Polymorphism, Abstraction, Encapsulation
- Static Members, Properties, Indexers

## **Module 5: Exception Handling, Files & Collections**

- Try-Catch-Finally, Custom Exceptions
- Working with Files and Folders
- List, Dictionary, Queue, Stack (Collections)
- LINQ Queries for Data Access

## **Module 6: Database Integration with ADO.NET**

- Connecting to SQL Server
- Executing Queries
- CRUD Operations with Parameterized Commands
- DataReader vs DataAdapter

## **Module 7: Capstone Project**

Capstone Project Ideas:

- Employee Management System
  - Inventory Dashboard using WinForms/WPF
  - Student Portal with Login & Database Integration
  - Basic REST API using .NET Core (Intro Level)
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## Who Should Enroll?

- Students from CS, IT, BCA, or MCA
  - Beginners looking to enter **Windows or .NET application development**
  - Developers wanting to build **enterprise-grade or cross-platform apps**
  - Programmers aiming to move into **Unity Game Development**
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## Career Outcomes

This program prepares you for:

- C#/.NET Developer
- Software Engineer (Windows & Desktop Apps)
- Backend Developer with ASP.NET Core
- Unity Game Developer (C# scripting)
- API Developer with C#

### **Industries Using C#:**

Finance | Healthcare | SaaS | Gaming | Enterprise IT | Government Tech | Azure-Based Platforms

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## Tools & Platforms Covered

Visual Studio | .NET SDK | SQL Server | GitHub | LINQ | ADO.NET | Windows Forms | WPF | Azure (Intro)

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## Sample Project Ideas

- Hotel Booking Console App
  - Customer Feedback Manager
  - Bookstore Inventory System
  - Calculator with GUI
  - Student Attendance Tracker with DB
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## Certification

Earn a **Certed Technologies Certificate** and a **C# Programming Badge**, validating your mastery in **object-oriented software development with C# and .NET**.

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## What Makes This Course Unique?

- ✓ Complete Hands-On Approach
  - ✓ Practical Enterprise & Desktop Projects
  - ✓ Foundation for .NET, Blazor, or Unity Game Dev
  - ✓ Excellent Prep for C#-based Interviews
  - ✓ Database + GUI + Object-Oriented Focus
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## Upcoming Batch

Batch Start Date	Mode	Status
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15 July 2025	Online	Open
22 July 2025	Offline	Few Seats Left
05 August 2025	Hybrid	Open

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## Custom C# Training for Colleges & Corporates

Perfect for:

- College Labs & App Dev Tracks
- C# for Unity (Game Dev Clubs)
- Backend Dev Onboarding (C# + SQL Server)
- Government Tech or ERP Projects




### Customization Options

- Add WinForms/WPF Project Track
  - Combine C# + SQL + ADO.NET for ERP Builds
  - Include C# + Unity Scripting for Game Dev
  - Weekly Coding Challenges + Certification Quizzes
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## Talk to an Advisor

 Email: [support@certedtechnologies.com](mailto:support@certedtechnologies.com)

 Call/WhatsApp: +91-8920158923 | +91-9009015026


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## Ready to Build Smart, Secure, and Scalable Apps?

**“C# is not just a language—it’s your gateway to the Microsoft ecosystem, gaming, and enterprise software.”**

Master the language that powers **modern software engineering** and **game development**—start your journey today.

[ [Enroll Now](#)]

[ [Request a Callback](#)]

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## ? Frequently Asked Questions (FAQs)

1. **Do I need .NET knowledge to learn C#?**

No, .NET is introduced along with the course. We start from scratch.

2. **Is this suitable for game developers?**

Yes! C# is used with Unity. This course builds your scripting fundamentals.

3. **Will I learn GUI or just console apps?**

Both! We begin with the console and move into GUI (WinForms/WPF).

4. **What database will we use?**

SQL Server with ADO.NET is included for database integration.

5. **Does this include certification?**

Yes. You'll receive a certificate and badge from Certed Technologies upon successful completion.

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