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# C# PROGRAMMING FOR BEGINNERS

Duration: 3 Days



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# COURSE OVERVIEW

"C# Programming for Beginners" is an exciting and comprehensive 3 days training course designed to take your first steps into the world of coding and software development.

This course is perfect and is structured for those with little or no prior experience in programming, and aims to give you a solid foundation in the fundamentals of C# programming language.

This course covers the fundamental concepts of programming and takes you through step-by-step learning experience and covers topics such as data types, variables, control structures, functions, classes and object-oriented programming.

This course also includes hands-on exercises and projects to reinforce the concepts taught in the course.

In this course, you will learn how to use Visual Studio, a popular integrated development environment (IDE), to write, test, and debug your C# code.

By the end of the course, you will have a solid understanding of C# programming and learn how to write basic C# code, understand the syntax and structure of the language, and gain the skills needed to create simple programs and to provide you with a strong foundation in C# programming and prepare you for further study in the field.

C# is also a high-level programming language developed by Microsoft as part of its .NET framework. It is used to build a variety of applications, including Windows desktop applications, mobile apps, web applications, and games.

In simple terms, C# allows you to write instructions that a computer can understand and execute. These instructions are used to create software applications that can perform tasks, such as displaying information on a screen, processing data, and controlling other devices.



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# COURSE OVERVIEW

C# is known for its simplicity, efficiency, and versatility, making it a popular choice for both beginners and experienced developers.

C# is also syntactically similar to several other programming languages, including:

- Java
- C++
- JavaScript
- Rust
- Groovy
- Kotlin
- Golang
- Scala
- Swift

What this mean to you is that once you know C#, you should be able to pick-up one of those programming language quite easily.





# WHAT YOU WILL ACCOMPLISH

- ✓ Introduction to programming and the C# language.
- ✓ Data types and variables, including how to declare and use variables of different types.
- ✓ Control structures, such as if-else statements and loops, and how to use them to control the flow of a program.
- ✓ Functions, including how to write and call functions in C#.
- ✓ Object-oriented programming, including the principles of encapsulation, inheritance, and polymorphism, and how to use these concepts to create reusable, maintainable code.
- ✓ Arrays and collections, including how to work with arrays and other collections of data in C#.
- ✓ Debugging and error handling, including how to find and fix bugs in your code.
- ✓ Read and write data to database in C#.
- ✓ Hands-on exercises and projects that reinforce the concepts taught in the course and give you the opportunity to build their own applications.

By the end of the course, you will have a solid understanding of C# programming and the skills needed to start building their own applications.

The course is designed to provide you with a strong foundation in C# programming and prepare you for further study in the field.





## WHY THIS COURSE

In a digital-first world, learning to code is a digital skill, and digital skill is a valuable asset and have never been more critical to business and the workforce.

C# (C Sharp) is a powerful and versatile programming language that can be used to build a wide range of applications, including:

- Windows desktop applications: C# is often used to build Windows desktop applications, such as productivity tools, games, and multimedia software.
- Web applications: C# can be used to build dynamic web applications using ASP.NET, a popular framework for building web applications.
- Mobile applications: C# can be used to build mobile applications for Windows Phone, iOS, and Android devices using Xamarin, a cross-platform mobile development framework.
- Enterprise applications: C# is often used to build enterprise applications, such as customer relationship management (CRM) systems, supply chain management systems, and human resources management systems.
- Games: C# is a popular language for building games using Unity, both for desktop and mobile platforms.
- Virtual and augmented reality applications: C# can be used to build virtual and augmented reality applications using Unity, a popular game development engine.

Overall, C# is a versatile language that can be used to build a wide range of applications across a variety of platforms and industries. Whether you're building a simple desktop application or a complex enterprise system, C# is a powerful language that can help you get the job done.





## WHY THIS COURSE

C# (C Sharp) is not only a powerful programming language, but it also helps in our personal development including:

- Writing code requires breaking down complex problems into smaller, manageable tasks, which can help improve your problem-solving skills.
- Programming requires a logical and systematic approach to solving problems, which can improve your logical thinking skills and help you approach challenges in a more organized manner.
- Writing code involves paying close attention to details, such as syntax and logic, which can improve your overall attention to detail.
- Programming provides a creative outlet for bringing ideas to life and experimenting with different solutions to problems, which can boost your creative thinking skills.
- Learning to program can open up new career opportunities and give you the skills to excel in tech-related fields.
- The process of learning programming can also improve your neural plasticity, which refers to the brain's ability to form new connections and adapt to new information.

Overall, learning programming can have a positive impact on you by improving cognitive skills, providing a sense of accomplishment, and opening up new opportunities for personal and professional growth.





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## WHO SHOULD ATTEND

C# Programming for Beginners course is suitable for anyone who wants to learn programming or is new to the C# language. It can be helpful for:

- Individuals with no programming experience who want to learn programming from scratch.
- Students or professionals who want to learn a new programming language.
- Developers who have experience with other programming languages but are new to C#.

Whether you are a student, a professional, or simply interested in learning a new skill, C# for beginners course can help you gain the fundamental knowledge and skills required to start your programming journey.



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# COURSE PREREQUISITE

There are no specific prerequisites for learning C# programming for beginners. However, it would be beneficial to have:

- Basic computer knowledge, including how to use a keyboard, mouse, and navigate the file system.
- Familiarity with basic math concepts such as addition, subtraction, multiplication, and division.
- Comfortable navigating and working in a Windows environment.
- Comfort with using computers, navigating through the file system, and working with software applications is important. You should be able to perform tasks such as installing software, navigating through directories, and executing basic commands.

Having prior experience with other programming languages or computer science concepts is not necessary, as this training course is designed to be accommodative for beginners with no prior experience in C# programming. The instructors will start from the basics and guide you through each concept step by step.



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