



KIDS & TEENS FREELANCING TRAINING INSTITUTE

C Sharp(#)Programming Course Outline

Module 1: What is C# Programming?

- What is C# and where is it used?
 - Simple explanation: a powerful language used for apps, games, and websites
 - Real-life example: C# is like a smart assistant who follows your exact instructions
 - Where C# is used: Unity games, Windows apps, websites with .NET
 - Fun comparison: C# vs. C (C# is the superhero version with more powers!)
 - Activity: Write your first C# program – Hello, World!
 - Bonus: What makes C# cool for game developers and app builders
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Module 2: Variables – Storing Data Like a Pro

- What are variables in C#?
 - Real-life example: naming your drawers and putting stuff in them
 - Types of variables: int, string, bool, double, char
 - How to declare and use variables
 - Activity: Create a program that stores your name and age
 - Fun twist: show different types of variables using favorite things
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Module 3: Talking to Your Program – Input & Output

- What is user input and why it's fun
 - Real-life example: you ask a question, the program answers
 - Using `Console.WriteLine()` and `Console.ReadLine()` in C#
 - Activity: Create a mini chatbot that asks your favorite color or animal
 - Challenge: Make a simple quiz with input/output
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Module 4: Making Decisions – If, Else, and Conditions

- What are if-statements?
 - Real-life example: If you finish homework, you can play!
 - Comparison operators: ==, >, <, !=
 - Using `if`, `else if`, and `else` in C#
 - Activity: Create a program that gives grades based on a score
 - Bonus: Make a game where the computer makes a choice based on your input
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Module 5: Loops – Repeating Actions

- What are loops and how do they work?
 - Real-life example: brushing your teeth every night = a loop!
 - Using `for`, `while`, and `do while` loops in C#
 - Activity: Print your favorite word 5 times using a loop
 - Challenge: Make a countdown or multiplication table using loops
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Module 6: Arrays – Groups of Data

- What is an array in C#?
 - Real-life example: a train with many connected seats
 - How to create and use arrays
 - Accessing elements using indexes
 - Activity: Store your top 5 favorite foods in an array and display them
 - Fun challenge: find the longest word in an array of names
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Module 7: Functions – Making Code Reusable

- What is a function (method) and why use it?
 - Real-life example: pressing a microwave button to pop popcorn every time
 - How to create and call functions in C#
 - Activity: Build a function that adds or multiplies two numbers
 - Bonus: Use parameters to make flexible functions
 - Visual idea: organize your code like a toolbox with labeled tools
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Module 8: C# in the Real World & Your Future

- Where C# is used: Unity games, Windows apps, VR, and more!
- Real-life example: C# is like the remote control behind your favorite tech
- Jobs that use C#: game developers, software engineers, app creators

- Activity: Draw your dream app or game and explain how C# helps build it
 - What's next: Unity for 2D/3D games, ASP.NET for websites, or Blazor for cool UIs
 - Why learning C# opens doors to exciting tech careers
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Bonus Materials:

- Interactive quizzes and coding mini-games
- Beginner tools: Visual Studio, Replit, dotNETFiddle
- Printable C# keywords and syntax sheet
- Team project idea: Create a simple calculator or guessing game
- Official Certificate of Completion