

C-Programing Certificate Course

Course Overview

C programming is a popular and widely-used programming language that was developed in the early 1970s. It was created by Dennis Ritchie at Bell Labs as an extension of the B programming language. C is known for its efficiency, simplicity, and low-level programming capabilities, making it suitable for systems programming, embedded systems, and development of various applications.

Here is a brief overview of C programming:

- **Structure:** A C program consists of functions and variables. It typically starts with a `main()` function, which is the entry point of the program.
- **Variables and Data Types:** C has several built-in data types, including integers, characters, floating-point numbers, arrays, and structures. Variables must be declared with their data types before they can be used.
- **Control Flow:** C provides control structures like if-else statements, loops (for, while, do-while), and switch statements to control the flow of execution based on conditions.
- **Functions:** C allows the creation of functions, which are reusable blocks of code. Functions can have input parameters and return values. The `main()` function is a special function that serves as the starting point of execution.
- **Pointers:** C supports pointers, which are variables that store memory addresses. Pointers are powerful tools for working with arrays, strings, and dynamic memory allocation.
- **Arrays and Strings:** C allows the creation of arrays, which are contiguous blocks of memory to store multiple elements of the same data type. C treats strings as arrays of characters.
- **Libraries:** C has a rich set of standard libraries that provide numerous functions for various purposes, such as mathematical operations, file handling, and networking.

Pre-Requisites

- Basic Computer Skills
- Understanding of Programming Concepts
- Mathematics and Logic
- Problem-Solving Skills
- Familiarity with a Text Editor
- Basic Understanding of Command Line

Remember, while these prerequisites can be helpful, they are not strict requirements. C programming is often considered a good starting point for learning programming, even for beginners. With dedication, practice, and perseverance, you can learn C programming and gradually build your programming skills.

Benefits of Learning C programming

Learning C programming offers several benefits, making it a valuable skill to acquire. Here are some key benefits of learning C programming:

- **Foundation for Other Languages:** C is considered a foundational language and serves as the basis for many other programming languages. Learning C provides a solid understanding of fundamental programming concepts, syntax, and low-level operations, making it easier to learn other languages like C++, Java, and Python.
- **Efficiency and Performance:** C is known for its efficiency and performance. It allows low-level programming, direct memory manipulation, and fine-grained control over system resources. This makes it suitable for developing software that requires optimal performance, such as operating systems, embedded systems, and real-time applications.
- **Portability:** C programs can be compiled and run on different platforms with minimal or no modifications. This portability allows developers to write code once and deploy it on various operating systems and hardware architectures.
- **Enhances Problem-Solving Skills:** C programming requires logical thinking and problem-solving skills. Writing code in C involves breaking down complex problems into smaller, manageable tasks, which helps improve your analytical and problem-solving abilities.
- **Career Opportunities:** Proficiency in C programming is highly valued in the job market, particularly in fields like systems programming, embedded systems, firmware development, and game development. Many industries and companies seek professionals with C programming skills, making it a valuable asset for your career.

Related Job Roles

- Systems Programmer
- Embedded Systems Engineer
- Firmware Engineer
- Game Developer
- Compiler Engineer
- Network Programmer
- Algorithm Engineer

These are just a few examples of job roles where C programming skills are highly sought after. C programming is versatile and widely used, opening up various opportunities in different industries, including technology, automotive, aerospace, gaming, and more.

Available Training Options

- Online/Offline
- Weekdays Batches
- Weekend Batches
- Course - Duration: 30 Days
- Mode of Training - Online - Live Online Classes
- Daily 1Hr (Need to have a laptop or Computer with Good Internet)

Dedicated Trainer, Practical sessions. One-on-One Live Training Session with Hands-on Practical Training. For fees details and discounts whatsapp on Phno: +91 8050123030

C-Programming Training Syllabus

Basics of C

- History and Features of C
- Importance of C
- About Procedural Language
- Role of Compiler
- Role of Interpreter
- The Structure of a C Program
- Writing C Programs
- Building an Executable Version of a C Program
- Debugging a C Program
- Examining and Running a C Application Program

An Overview Of C And Buzzwords

- Data Type, Variable
- Operators
- Control Statement
- Preprocessor Directives Input and Output Operators
- Reading/Writing Characters
- Formatted input/output Function

Control Statement

- The IF.....ELSE Statement
- IF.....ELSE ladder
- Nesting of IF.....ELSE Statements
- The Switching Statements
- FOR Statements
- The while statement
- The do-while Statement

Array in C

- Array : What and Why?
- One Dimensional Arrays
- Two Dimensional Arrays
- Multi Dimensional Arrays
- Dynamic Arrays

String Handling

- Reading String from Terminal
- Writing String to Screen
- String Handling Functions
- Table of String

Function in C

- Function Basics
- Advantage of Function
- Recursion
- Variable Storage Classes
- Variable arguments Function

Pointers in C

- Understanding Pointers
- Pointer expressions
- Pointer and Arrays
- Pointers and Character String
- Pointers to Functions
- Pointers and Structures

Structures and Unions

- Defining a Structure
- Advantage of Structure
- Size of Structure
- Arrays of Structures
- Structures and Functions
- Defining Unions

File Management in C

- Introduction to File Management
- Opening/Closing a File
- Input/Output operations on Files
- Error Handling During I/O Operations
- Command Line Arguments

For Registration/ Customization of Course / Course Fees

Call / What's app on:	+91 8050123030
Duration:	30 Days
Mode of Training:	Online
Weekdays:	Monday-Friday
Weekends:	Saturday and Sunday

Student Review

Arvind Raju

From : Oman

I've taken up the Advance Python & Arcpy classes from this institute with trainer Mrs. Roselynn is very knowledgeable and teaches the course topics with great detail. Everything was easy to understand and I was always helped with doubts until it was completely rectified. I would definitely recommend this Institute to anyone wanting to learn Python or any of the other courses they offer.

Ullash Ghosh

From : Kolkatta

Excellent teaching of Advance Python programming by experienced trainer. Flexible timings. It was an awesome experience.

Jahir Hussain

From : Qatar

Its Helped me to identify clear, be able next steps towards resolving my own workplace conflict and issues.

Ayeesha H

From : Bangalore

Great knowledge given by the mentor, Best training institution. Mam has explained all the topics very clearly.

Student Review

Vishnu vg From Kerala

My trainer, has a very good command over all the topics. She has explained each topic very clearly. We got a good understanding of all the concepts as she used to write programs daily for the real time scenarios. She make us practice during the classes. Overall I could say, you will be gaining good hands-on and understanding by end of the course

Eshawar Rao From Hubli Dharwad

Excellent Faculty, Excellent Knowledge about subject, madam gives Attention towards every individual student, Madam is having enough Patience in clearing all individual doubts, Overall Excellent training centre to learn and to grow.

Siddhi Kanekar From Pune

Best training institution. Mam has explained all the topics very clearly.
Thank you so much mam for being part of your institution.

Aghil Dev From Orisa

I happy to be a student of rose mam, as she was always present to help. My classes were good and helped me in understanding the concept. Thanks rose mam

Gaurav Chauhan

Position: GIS Analyst

Company:

Carifer Technologies Private Limited
Chennai

Salary: 13 LPA

Harisha

Position: GIS Analyst

Company:

GVS Technosoft Pvt. Ltd
Salary: 10 LPA

Ankit Hemnani

Position: Software Engineer .Net

Company:

Celtic System Pvt.Ltd
Salary: 7.5 LPA

Harish Vijayakumar

Position: Project-Assosiate

Company:

Cognizant Technology Solutions India
Private Limited
Salary: 12 LPA

KIRAN B

Qualification: MBA

Position: Business Head

Experience: 18 Years

His extensive experience in Operations Management, Client Acquisition, HR & Recruitment, and working with startups, he has demonstrated a track record of success across multiple industries and geographies. Starting from an executive level, he progressed to management positions, where he implemented process improvements to enhance efficiency, increase revenue, and drive growth. His vast network of colleges and training centers has significantly contributed to the development of robust recruitment and training pipelines. Moreover, he has successfully engaged with diverse clients.

NIKHIL S D

Qualification: BE Civil

Position: CAD Trainer (Civil)

Experience: 10 Years

Programing Skills: C,C++

2D And 3D Skills: AutoCad, 3D Max, Staad pro, Solid Works, Revit, Google Sketchup and ArcGIS CityEngine

Highly experienced CAD Civil Trainer with a demonstrated track record of success in delivering comprehensive training and instruction, specifically tailored for civil engineering applications. Committed to empowering learners with the necessary skills and knowledge to excel in their civil design and drafting projects.

RAMESH J

Qualification: BE Mech

Position: CAD CAM Trainer (Mech)

Experience: 6 Years

Programing Skills: C,C++,Python

2D And 3D Skills: AutoCad, Catia, Pro-e, Solid Edge, MatLab, Ansys, Solid Works,

Results-oriented CAD Mech Trainer with a decade of experience delivering exceptional training and instruction in 2D and 3D modeling software for mechanical engineering applications. Committed to equipping learners with the skills and knowledge needed to excel in mechanical design, simulation, and manufacturing.

ROSELEN S B

Qualification: MCA

Position: Programmer And Corporate Trainer

Experience: 12 Years

Programing Skills: Java, Python, AI, Machine Learning, Php, SQL, Full Stack

GIS Skill: Arcpy, ArcGIS JS API, ArcGIS Python API, PostGIS, Web AppBuilder, WebGIS

Highly experienced programming mentor with strong background in various programming languages. With over 12 years of training experience, has successfully mentored more than 3000 students, dedicated to helping aspiring programmers and professionals acquire the necessary skills and knowledge to excel in their programming careers.

KAVITA H

Qualification: MSc.IT

Position: Programing Trainer

Experience: 10 Years

Programing Skills: C, C++, Java, MSSQL, MYSQL Server, C# and good knowledge in Servlets, JSP, EJB Worked on J2EE 1.4 Application Server

Kavita is a seasoned programming mentor and trainer with a decade of experience specializing in Java Servlets and MySQL. She has a strong passion for teaching and guiding individuals in mastering these technologies. kavita's in-depth knowledge and practical experience in Java Servlets and MySQL make her an ideal mentor for aspiring programmers looking to excel in web development

ANKIT H

Qualification: MSc.Geoinformatics

Position: GIS Trainer

Experience: 6 Years

GIS Skills: Arc GIS, Arc GIS Pro, QGIS, IGIS, Fusion X, Auto CAD, MS Office, Google Earth, Bhuvan Portal, Geo-Server, Arcgis online, Microstation

Programing Skills: HTML, CSS, Java script, ArcGIS API for Java script, .Net, Python
Ankit is a highly skilled GIS trainer. Has experience in ArcGIS, QGIS, PostGIS, remote sensing, and network analysis. His expertise lies in the field of spatial data analysis and geospatial technologies. He is passionate about sharing his knowledge and helping individuals develop proficiency in GIS applications for various industries.

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