

CPP Certificate Course

Course Overview

C++ is a general-purpose programming language that was developed as an extension of the C programming language. It was created to provide additional features and capabilities while maintaining compatibility with C code. C++ is widely used and known for its efficiency, flexibility, and performance.

Here are some key features and characteristics of C++:

- **Object-Oriented Programming (OOP):** C++ supports object-oriented programming, allowing developers to create classes and objects, encapsulate data and functions, and implement concepts like inheritance, polymorphism, and abstraction.
- **Strong Typing:** C++ is a statically typed language, which means that variable types need to be declared at compile-time. It enforces strong typing, ensuring type safety and catching potential errors at compile-time.
- **Cross-Platform Development:** C++ code can be compiled and executed on different operating systems, making it a popular choice for developing cross-platform applications and system software.
- **Widely Used:** C++ is widely used in various domains, including systems programming, game development, embedded systems, scientific computing, and high-performance applications.
- **Standard Template Library (STL):** C++ includes a rich library called the Standard Template Library (STL), which provides various container classes (e.g., vectors, lists, maps) and algorithms (e.g., sorting, searching) that can be used to solve common programming tasks.

Pre-Requisites

- Programming Fundamentals
- C Programming Language
- Object-Oriented Programming (OOP) Principles
- Basic Command Line Usage
- Problem-Solving Skills

Remember that learning programming is an ongoing process, and practical hands-on experience is crucial for reinforcing your knowledge. Practice writing code, tackle programming challenges, and work on projects to apply your skills and gain proficiency in C++.

Benefits of Learning C++

Learning C++ (C Plus Plus) offers a range of benefits that make it a valuable programming language to master. Here are some of the key benefits of learning C++:

- Performance and Versatility
- Cross-Platform Development
- Standard Template Library (STL)
- Foundation for Learning Other Languages
- Integration with other Python libraries
- Career Opportunities

learning C++ equips you with a powerful and versatile programming skillset. It offers performance benefits, broad application possibilities, compatibility with existing codebases, and ample career opportunities.

Related Job Roles

- Software Engineer/Developer
- Game Developer/Programmer
- Systems Programmer
- Algorithmic Trading Developer
- Compiler Engineer

These are just a few examples of job roles that often require proficiency in C++. Many other domains and industries also utilize C++ extensively, such as robotics, aerospace, networking, 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

CPP Training Syllabus

Introduction to C++

- C++ Overview
- C++ Characteristics
- Object-Oriented Terminology
- Polymorphism
- Object-Oriented Paradigm
- Abstract Data Types
- I/O Services
- Standard Template Library
- Standards Compliance

Functions and Variables

- Functions: Declaration and Definition
- Definition, Declaration, and Scope
- Variables: Dynamic Creation and Derived Data
- Arrays and Strings in C++
- Qualifiers

Classes in C++

- Defining Classes in C++
- Classes and Encapsulation
- Member Functions
- Instantiating and Using Classes
- Using Constructors
- Multiple Constructors and Initialization Lists
- Using Destructors to Destroy Instances
- Friendship

Operator Overloading

- Operator Overloading
- Working with Overloaded Operator Methods

Initialization and Assignment

- Initialization vs. Assignment
- The Copy Constructor
- Assigning Values
- Specialized Constructors and Methods
- Constant and Static Class Members

Storage Management

- Memory Allocation
- Dynamic Allocation: new and delete

Inheritance

- Overview of Inheritance
- Defining Base and Derived Classes
- Constructor and Destructor Calls

Polymorphism

- Overview of Polymorphism

Input and Output in C++ Programs

- Standard Streams
- Manipulators
- Unformatted Input and Output
- File Input and Output

Exceptions

- Exceptions
- Inheritance and Exceptions
- Exception Hierarchies
- Inside an Exception Handler

Templates

- Template Overview
- Customizing a Templated Method
- Standard Template Library Containers

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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