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## C++ Training

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**TRAINING DURATION** 70 Hrs / 2 Months / Customized

**TRAINING CHARGE** 3,000+ Service Tax

### Details of C++ Training Modules

#### 1. INTRODUCTION TO C++

- Understanding Requirement : why c ++
- C vs. C++
- Advantage of OOP
- Software and Hardware for c++
- Compling and Linking

#### 2. AN OVERVIEW OF c++ AND BUZZWORD S

- Data Types , Variables And Arrays
- Operators
- Control Statements

#### 3. FUNCTIONS

- Functions Prototyping
- Call /Return By Reference
- Function overloading
- Friend and Virtual Functions

#### 4. CLASSES AND OBJECTS

- Defining Member Functions
- Arrays within a Class
- Memory allocations for Objects

- Pointers to Members

## **5. CONSTRUCTORS AND DESTRUCTORS**

- Parameterized /copy/Dynamic Constructors
- Multiple Constructors in a Class
- Dynamic initialization of objects
- Constructing Two –dimensional Arrays
- Destructors

## **6. OPERATOR OVERLOADING**

- Overloading Unary /Binary operators
- Manipulations of String Using Operators
- Rules for Overloading Operators
- Type Conversions

## **7. INHERITANCE : Extending Classes**

- Defining Derived Classes
- Constructors in Derived Classes
- Single /Multiple /multilevel/Hierarchical /Hybrid Inheritance
- Virtual Base Classes
- Abstract Classes
- Member Classes : Nesting of Classes

## **8. POINTERS ,VIRTUAL FUNCTIONS AND POLYMORPHISM**

- Pointers to Objects
- This pointer
- Pointer to Derived Classes
- Virtual Functions

## **9. MANAGING CONSOLE I/O OPERATIONS**

- C++ Stream Classes



- Unformatted /Formatted I/o Operations

## 10. FILE MANAGERMENTS IN C++

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

## 11. EXCEPTION HANDLING

- Basics of Exception Handling
- Exceptions Handling /Throwing /Catching Mechanism
- Rethrowing an Exception

## 12. TEMPLATE

- Introduction to Template
- Class Template
- Function Template
- Overloading of Template Function
- Graphics (optional )
- Project Work



**TRAINING SCHEDULE** - Please contact us for latest training schedule

**TRAINING MODE**

We give flexible learning options to trainees

- Instructor Lead (REGULAR / ONLINE / WEEK-END / PART-TIME / COMBINED-FLEXIBLE)
- INSTRUCTOR LEAD LIVE ONLINE TRAINING MODE - You can join the training from any part of world

**CONTACT DETAILS**

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