

CNC Infotech Skill Development Pvt. Ltd

3/322 Near Sabji Mandi, Sector 3 Malviya Nagar, Jaipur

C++

Duration:

Prerequisites: Basic Knowledge of C Language

Introduction

- What is C++, Its Applications, And Advantages etc.
- Difference between C And C++.
- Creating C++ Source File, Editing, Compiling, Linking, Debugging
- Object Oriented Programming (OOP).
- · Applications of OOP, Benefits of OOP.

Decision Control and Looping Statements

- Conditional Branching Statements
- If Statement
- If–Else Statement
- If–Else–If Statement
- Switch Case
- While Loop
- For Loop
- Do-While Loop
- Nested Loops
- Break And Continue Statements
- Goto Statement

Functions In C++

- Different Forms Of Functions
- Function Prototyping
- Call By Reference
- Inline Functions
- Function Overloading
- Math Library Functions
- Default Arguments In Function



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Constructor and Destructors

- Introduction To Constructors And Destructors
- **Default Constructor**
- Parametrized Constructor
- **Dynamic Constructor**
- **Copy Constructor**
- **Default Argument Constructor**
- Overloading Of Constructor
- Destructor
- **Explicit Constructors**
- Dynamic Initialization And Assignment Operation
- **Private Copy Constructors**
- Usage Of Constructors And Destructors For Constant Objects
- Dynamic Initialization Of Object

Exception Handling

- Components Of Exception Handling Mechanism
- Try Block
- Catch Block
- Throw Expression
- **Throwing Within And Outside Functions**
- Throwing Variables Other Than Objects
- Using Multiple Catch
- Catch All
- Restricting Exceptions From Functions: Exception Specification
- **Rethrowing Exceptions**
- Terminate() And Unexpected() Functions
- Uncaught_Exception() Function
- **Exception Class**

String Objects

- **Operations On String Objects**
- **Creating Strings**
- **Substring Operations**
- **Operations Involving Multiple Strings**



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• String Characteristics

Standard Template Library

- Generic Programming
- Generic Algorithms
- Iterators
- Containers
- Generic Algorithms
- Find() Algorithm
- Copy() Algorithm
- Sort() Algorithm