

C++

Training Details

Course Code	: HCCC92
Course Name	: C++ Language
Duration	: 2 Months
Eligibility	: 10th / +2 / Diploma / Any Degree

Syllabus:


1) Introduction

- History of C++
- What is Object Oriented Programming
- Application Of C++
- A Simple C++ Program
- Cascading of I/O Operators
- Structure of a C++ Program

2 Tokens And Control Structure

- Tokens
- Data Types
- Type Compatibility
- Arithmetic Operators
- Relational Operators
- Logical Operators

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- Assignment Operators
- Increment Operators
- Conditinal Operators
- Bitwise Operators
- Special Operators
- Operators in C++
- Order of Precedence
- Expressions
- Operator Overloading
- Control Structure
- Simple if Statement
- if - else Statement
- switch Statement
- do Statement
- break Statement
- for Statement
- Additinaol features of for loop
- Nested for

3) Arrays

- Introduction
- One dimensional Arrays
- Two dimensional Arrays

4) Strings

- Reading String From The Terminal
- Reading Multiword String From The Terminal
- String Hanling Functions
- Table of Strings

5) Functions

- The main() function
- Simple C++ functions
- Functions Prototyping
- Return Value and Their Types
- Function Overloading
- Friend And Virtual Functions

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- Programming Examples
- Exercise

6) Classes

- Revision of C Structures
- Limitations of C Structures
- Class
- Creating Objects
- Accessing Class Member
- Defining Member Functions Class And structures
- Private Member Functions
- Static Data Members
- Static Member Functions
- Array of Objects
- Objects As Function Arguments
- Friend Functions

7) Constructors And Destructors

- Introduction
- Default Constructor
- Argumented constructor
- Copy Constructor
- Multiple Constructor
- Destructors

8) Operator overloading

- Definition
- Overloading Unary Operator using Member function
- Overloading Unary Operator using Friend function
- Overloading Binary Operator using Member function
- Overloading Binary Operator using Friend function

9) Inheritance

- Introduction
- Base Class
- Derived Class

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- Types of Inheritance
- Virtual Base Class
- Abstract Class

10) Virtual Functions And Polymorphism

- Introduction To Pointers
- Pointer To Object
- this Pointer
- Pointer to derived Classes
- Virtual Functions

11) File Operations in C++

- C++ Streams
- Opening And Closing a File
- Detecting End of File
- File Pointers And Their Applications
- Sequential Input And Output Operations
- write() And read() Functions
- More About open() : File Modes
- Reading And Writing A Class Object

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