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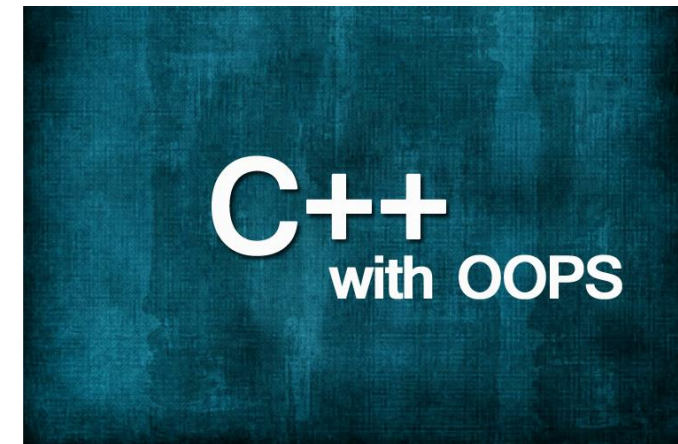
ICT Trainings Institute – Engineering Your Career

Computer Programming C++



Course Guide

This course provides a foundation in C++ syntax and usage, as well as object-oriented programming. With this training, you learn how to implement OOPs in C++, leverage advanced features — including constructors, destructors, inheritance, and polymorphism and gain an understanding of how C++ offers greater ability than C.



C++ is globally accepted language

The language is trusted and accepted by leading employers, educational institutions and governments worldwide.

For a full list of organizations using these market-leading language, go to www.google.com



Computer Programming – OOPs in C++ Course

Contents

C++ training curriculum covers the OOPs Programming standards. Curriculum is designed to meet all the requirements of core programming.

Struct

- What is Struct
- Creating Structs
- Variables in Struct,
- Functions in Struct,
- How to Use Struct in Main

Classes

- Variables/Properties (private, public, protected)
- Functions/Methods (private, public, protected)

Constructors/Destructors

- What is Default Constructors?
- Copy Constructor
- Overloaded Constructor
- What is Destructor?

Difference Between Public and Private

Functions/Methods and Variable/Properties

- Functions in Public
- How to Identify Function's Data Type?
- Why and When Should We Pass Const Variables in Function?
 - Returning Variables By-Reference and When By-Value

What is Encapsulation?

Friend class

- What is Friend Class?
- How to a Class Friend of Another Class?
- What a Friend Class Can Do?
- Syntax of Friend Class

Making struct within a class

Inheritance

- The Child Class
- Syntax of Inheritance
- Inherit all the Protected and Public Functions from Parent Class to Child Class.

Polymorphism

- What is Polymorphism?
- How we Implement it?

Virtual Function

- The Function Which can be Override in Parent Classes
- Benefits of Virtual Function

Abstract class or pure virtual class

- What is an Abstract Class?
- Benefits of Abstract Class
- Properties of Abstract Class

Template class

Casting

- How to do Down-Casting in C++
- How to do Ray-Casting in C++

Typed_ID Functionality

Practical Approach

Practical examples will be given for design, analysis, implementation and maintenance.

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