

Programming Objects with C++ – Fundamentals

Description

This course teaches you everything about OOP in C++ starting with basic in object oriented concepts to advanced concepts in OOPS. It covers all the topics in OOPs from basics to most advanced topics.

Course Content

Module 1: C++ Flow Control

- Lesson 1: C++ if...else
- Lesson 2: C++ for Loop
- Lesson 3: C++ do...while Loop
- Lesson 4: C++ break & continue
- Lesson 5: C++ switch Statement
- Lesson 6: C++ goto Statement

Module 2: C++ Functions

- Lesson 1: C++ Function Types
- Lesson 2: C++ Function Overloading
- Lesson 3: C++ Default Argument
- Lesson 4: C++ Storage Class
- Lesson 5: C++ Recursion
- Lesson 6: C++ Return Reference

Module 3: C++ Arrays & String

- Lesson 1: C++ Arrays
- Lesson 2: Multidimensional Arrays
- Lesson 3: C++ Function and Array
- Lesson 4: C++ String

Module 4 : C++ Structures

- Lesson 1: C++ Structure
- Lesson 2: Structure and Function
- Lesson 3: C++ Pointers to Structure
- Lesson 4: C++ Enumeration

Module 5: C++ Object & Class

- Lesson 1: C++ Objects and Class
- Lesson 2: C++ Constructors
- Lesson 3: C++ Objects & Function
- Lesson 4: C++ Operator Overloading

Module 6: C++ Pointers

- Lesson 1: C++ Pointer
- Lesson 2: C++ Pointers and Arrays

- Lesson 3: C++ Pointers and Functions
- Lesson 4: C++ Memory Management

Module 7: C++ Inheritance and introduction to advanced topics

- Lesson 1: ANSI C++ Library and others.
- Lesson 2: Templates and Container Classes
- Lesson 3: Exception Handling
- Lesson 4: Basic C++ Data Types

Lab / Exercises

- During the course, participants are encouraged to actively participate in the learning experience by running example files during lectures and performing coding challenges during labs. Each lab session allows you to compare your solution to the instructor's

Documentation

- Digital courseware included

Participant profiles

- Softwares developers who want to use C++ based on object-oriented concepts

Prerequisites

- Knowledge of C programming

Objectives

- Hands-on introduction to object oriented programming in C++ for C programmers
- Emphasis is placed on the features of C++ that support effective modeling of the problem domain and reuse of code

Niveau

Fondamental

Classroom Registration Price (CHF)

3100

Virtual Classroom Registration Price (CHF)

2900

Duration (in Days)

4

Reference

CPP-01