

## Programming in C++

 Duration: 5 Days

 Available Languages: English

### Audience

Software Developers.

### Precondition

Knowledge of programming in general.

### Goals

Write programs in C++.

### Contents

- Overview of C++ Language
- Setup
- Basic Elements of C++
  - # Variables
  - # Data Types
  - # Operators
  - # Conditional Statements
  - # Loops
  - # Arrays and Structures
  - # Strings
  - # Namespaces
  - # Standard Libraries
- Further Topics
  - # Dynamic Memory Allocation
    - # malloc()
    - # calloc()
    - # realloc()
    - # free()
  - # Functions
  - # Pointers
    - # Concept
    - # Pointers and Character Strings
    - # Pointers to Functions
    - # Pointers and Structures Call by Reference Function
  - # Input / Output Operations on Files
  - # Error Handling
  - # Command Line Operations
- Object Oriented Programming

- # Concept Overview
- # Classes and Objects
- # Abstraction
- # Encapsulation
- # Inheritance
- # Method Overloading vs Method Overriding
- # Polymorphism
- # File Handling
- # Exception Handling
- Demo Sample C++ Application

## Booking

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