

C++ Fast Track Programming

Length:

5 days

Audience:

Programmers, analysts, managers and users who will be developing “C++” programs

Prerequisites:

Programming experience

Course Objectives:

- Understand the basic concepts of C++ design techniques
- Gain an understanding of C++ capabilities and features
- Learn to use the C++ language structure and constructs
- Learn how to write C++ programs
- Learn how to use C++ libraries for development and programming
- Demonstrate knowledge of basic C++ Object-Oriented Programming techniques needed to create well designed programs
- Demonstrate knowledge of typical C++ environmental considerations

Course Contents:

- Benefits of Object-Oriented Programming (OOP)
- Basic C++ Structure
- Fundamental Data Types
- Advanced C++ Data Types: Reference Parameters and Enumeration Types
- Storage Classes and Scope
- Operators and Expressions
- Selection and Looping Structures
- Arrays
- Pointers
- Dynamic Memory Allocation
- Structures
- Classes in C++: Declaring and Using Classes, Constructors and Destructors
- Derived Classes: Public, Private, Protected, Nested Classes, Virtual Functions, Multiple Inheritance, and Using Virtual Based Classes
- Inheritance
- Advanced C++ Functions: Friends, Overloading Operators, Inlining Functions, Abstraction
- The I/O Streams Library