

Course Outline



Tel: +44 (0) 118 979 4000 Fax: +44 (0) 118 979 4000

Email: training@ptr.co.uk Web: www.ptr.co.uk

Programming in C++ For Programmers

Course Description:

C++ is one of the most popular programming languages used for software development.

It is used in the areas of systems software, application software, device drivers, embedded software, high-performance server and client applications and video games.

Compilers are available for all major platforms. The Gnu Compiler collection provides a high quality free C++ compiler for many platforms.

This hands on course provides a comprehensive introduction to the key features of the language.

Pre-requisites:

Delegates should have experience of programming in any language. They should also have experience with the command line interface to the host computer.

Course Content:

- **Overview**
- **An Introduction to C++**
- **C++ base types**
- **C++ operators and expressions**
- **Arithmetic**
- **Arrays in C++**

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- **Text in C++: Arrays of char and Strings**
- **Control Structures**
- **Pointers**
- **Functions**
- **User Defined Types: Structs and Classes**
- **IO**
- **Function Overloading**
- **Operator Overloading**
- **Function Templates**
- **Object Oriented Programming: Classes**
- **Constructors and Destructors**
- **Dynamic Integer Array Class**
- **Class templates**
- **Inheritance**
- **Inheritance and Polymorphism in C++**
- **Abstract classes and pure virtual functions**
- **Casting Class Methods and Data Errors and Exception Handling**
- **Introduction to the Standard Template Library Text in C++:**

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- **Strings revisited**
- **Vectors Maps Sets Valarrays**

Course Duration: 5 Days