

Intermediate C++ Programming / Effective C++ (TTCP2150)

Price: 2595

Duration: 4 days

Delivery Methods: Virtual

Overview

C++ is a powerful, high-performance programming language that offers an ideal blend of low-level memory manipulation and high-level abstraction capabilities. Learning C++ is a valuable investment for developers, as it opens the door to creating efficient, versatile, and complex applications that run on a variety of platforms. Modern companies across diverse industries – including finance, gaming, automotive, and telecommunications – rely on C++ for developing performance-critical applications, system software, and embedded systems. Renowned organizations like Google, Facebook, and Microsoft continue to leverage the power of C++ in their development practices, solidifying its status as a crucial skill for developers seeking lucrative and challenging career opportunities.

Geared for experienced C++ developers, Intermediate C++ 20 / Effective C++ 20 is a four day, hands-on program that dives covers a broad spectrum of topics – from the quick review of C++ essentials to modern C++ features, memory management, unit testing, and more. Our expert instructors will walk you through a comprehensive journey, investigating cutting-edge concepts such as RAII, copy and move semantics, namespaces, templates, and C++ 20 Concepts & auto Templates. You'll learn to leverage the power of modern C++ and unravel the intricacies of memory management, including the handle/body pattern, smart pointers, and move constructors. By the end of this course, you'll have an in-depth understanding of C++ memory, pointers, and complexity.

Working in a hands-on environment, explore the art of functional programming and discover how the IoC pattern, dependency injection, functors, and lambda expressions can bring about significant enhancements to your code. With a strong emphasis on SOLID principles, inheritance, polymorphism, exceptions, and operator overloading, this course will help you design robust, maintainable, and scalable modern applications. You'll also expand your C++ toolset by exploring the rich offerings of the Standard Library, mastering the essentials of containers, algorithms, numerics, dates, and times. Gain a solid introduction to multitasking with threads, tasks, and async. As a bonus, you'll also learn how to implement effective unit testing in C++ using GTest, ensuring your code is reliable and bug-free.

Join our immersive training experience and become an adept C++ developer with unparalleled skills in the latest C++ 20 programming techniques. This fast-paced, lab-intensive course is designed to equip you with the knowledge and confidence to tackle the most challenging C++ development projects.

Audience Profile

This is an intermediate level development course designed for developers with prior C++ programming experience. Students without prior C++ programming background should take the pre-requisite training.

Prerequisites

Incoming students should have practical skills equivalent to the topics in, or should have recently attended, one of these courses as a pre-requisite:

Introduction to C++ Programming

Course Schedule

Date	Time	Price	Options
07/13/2026	09:00 AM - 05:00 PM CT	2,595.00	<u>Buy Now</u> <u>Enroll</u>

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FAQ

What if I have to reschedule my class due to conflict?

Ten (10) business days' notice is required to reschedule a class with no additional fees. Notify TOPTALENT LEARNING as soon as possible at 469-721-6100 or by written notification to info@toptalentlearning.com to avoid rescheduling penalties.

How do I enroll for this class?

Please contact our team at 469-721-6100; we will gladly guide you through the online purchasing process.

What happens once I purchase a class?

You will receive a receipt and an enrollment confirmation sent to the email you submitted at purchase. Your enrollment email will have instructions on how to access the class. Any additional questions our team is here to support you. Please call us at 469-721-6100.

What is your late policy?

If a student is 15 minutes late, they risk losing their seat to a standby student. If a student is 30 minutes late or more, they will need to reschedule. A no-show fee will apply. Retakes are enrolled on a stand-by basis. The student must supply previously issued courseware. Additional fees may apply.

What happens when I finish my class?

You will receive a 'Certificate of Completion' once you complete the class. If you purchased an exam voucher for the class, a team member from TOPTALENT LEARNING will reach out to discuss your readiness for the voucher and make arrangements to send it.