

Advanced C Plus Plus

Duration: 24.00 hours (3 days)

19.5 CPD Hours

Rating: ★ 4.6 (5,878 reviews)

Course Information

Delivery Format: Instructor Led - Online

Course Overview

This course begins with advanced C++ concepts by helping you decipher the sophisticated C++ type system and understand how various stages of compilation convert source code to object code. You'll then learn how to recognize the tools that need to be used in order to control the flow of execution, capture data, and pass data around. By creating small models, you'll even discover how to use advanced lambdas and captures and express common API design patterns in C++. As you cover later lessons, you'll explore ways to optimize your code by learning about memory alignment, cache access, and the time a program takes to run. The concluding lesson will help you to maximize performance by understanding modern CPU branch prediction and how to make your code cache-friendly.

About This Course

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Who Should Attend

If you have worked in C++ but want to learn how to make the most of this language, especially for large projects, this course is for you.

Learning Outcomes

Upon successful completion of this course, participants will be able to:

By the end of this course, you'll have developed programming skills that will set you apart from other C++ programmers. After completing this course, you will be able to:

Delve into the anatomy and workflow of C++

Study the pros and cons of different approaches to coding in C++

Test, run, and debug your programs

Link object files as a dynamic library

Use templates, SFINAE, constexpr if expressions and variadic templates

Apply best practice to resource management

Additional Course Details

Nexus Humans Advanced C Plus Plus training program is a workshop that presents an invigorating mix of sessions, lessons, and masterclasses meticulously crafted to propel your learning expedition forward.

This immersive bootcamp-style experience boasts interactive lectures, hands-on labs, and collaborative hackathons, all strategically designed to fortify fundamental concepts.

Guided by seasoned coaches, each session offers priceless insights and practical skills crucial for honing your expertise. Whether you're stepping into the realm of professional skills or a seasoned professional, this comprehensive course ensures you're equipped with the knowledge and prowess necessary for success.

While we feel this is the best course for the Advanced C Plus Plus course and one of our Top 10 we encourage you to read the course outline to make sure it is the right content for you.

Additionally, private sessions, closed classes or dedicated events are available both live online and at our training centres in Dublin and London, as well as at your offices anywhere in the UK, Ireland or across EMEA.

Frequently Asked Questions

Q: What delivery options are available for Advanced C Plus Plus?

We offer multiple delivery formats:

- Live Instructor-Led Classroom Online (Virtual/Live Online)
 - Traditional Instructor-Led Classroom Training (ILT)
 - On-site delivery at your offices anywhere in United Kingdom
 - Private dedicated courses customized for your team
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Q: How many CPD hours does this course provide?

The 3-day Advanced C Plus Plus course provides up to 19.5 CPD hours of structured learning. CPD certificates can be provided upon request.

Q: What is the duration of the Advanced C Plus Plus training?

The training takes place over 3 day(s), with each day lasting approximately 24.00 hours including breaks for lunch and refreshments.

Q: Do you provide corporate training for Advanced C Plus Plus?

Yes, we provide corporate training, dedicated training, and closed classes for Advanced C Plus Plus. Training can take place anywhere in United Kingdom including London, Manchester, Birmingham, Edinburgh, or live online allowing teams from across United Kingdom or internationally to attend.

Q: Why choose Nexus Human for Advanced C Plus Plus?

Nexus Human is recognized as one of the leading training providers. Our trainers have won multiple awards including:

- Small Firms Best Trainer Award
 - National Training Partner of the Year (Ireland) - Multiple Years
 - Global Top 30 Instructor Awards (2012, 2019, 2021)
 - Tech Excellence Award Nominations
 - Learning Performance Institute (LPI) External Training Provider Sponsor 2024
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Q: Are there any discount codes available?

Yes! Use discount code **PENPALS** when booking your Advanced C Plus Plus training. Please note that only one discount code can be used per booking and cannot be combined with other special offers.

Nexus Human

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