



C & C++ Programming Skill-Building Certificate Program

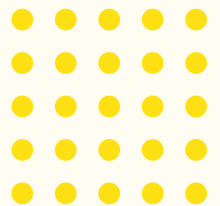
- **Program by Acadmiac:** expert-led, practical programming course.
- **Duration:** 12 weeks (typical for skill-building certificates).
- **Objective:** Build strong fundamentals in both C and C++, from basics to intermediate programming concepts.

www.acadmiac.com



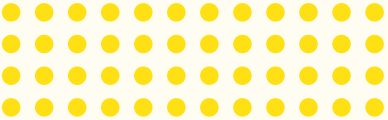
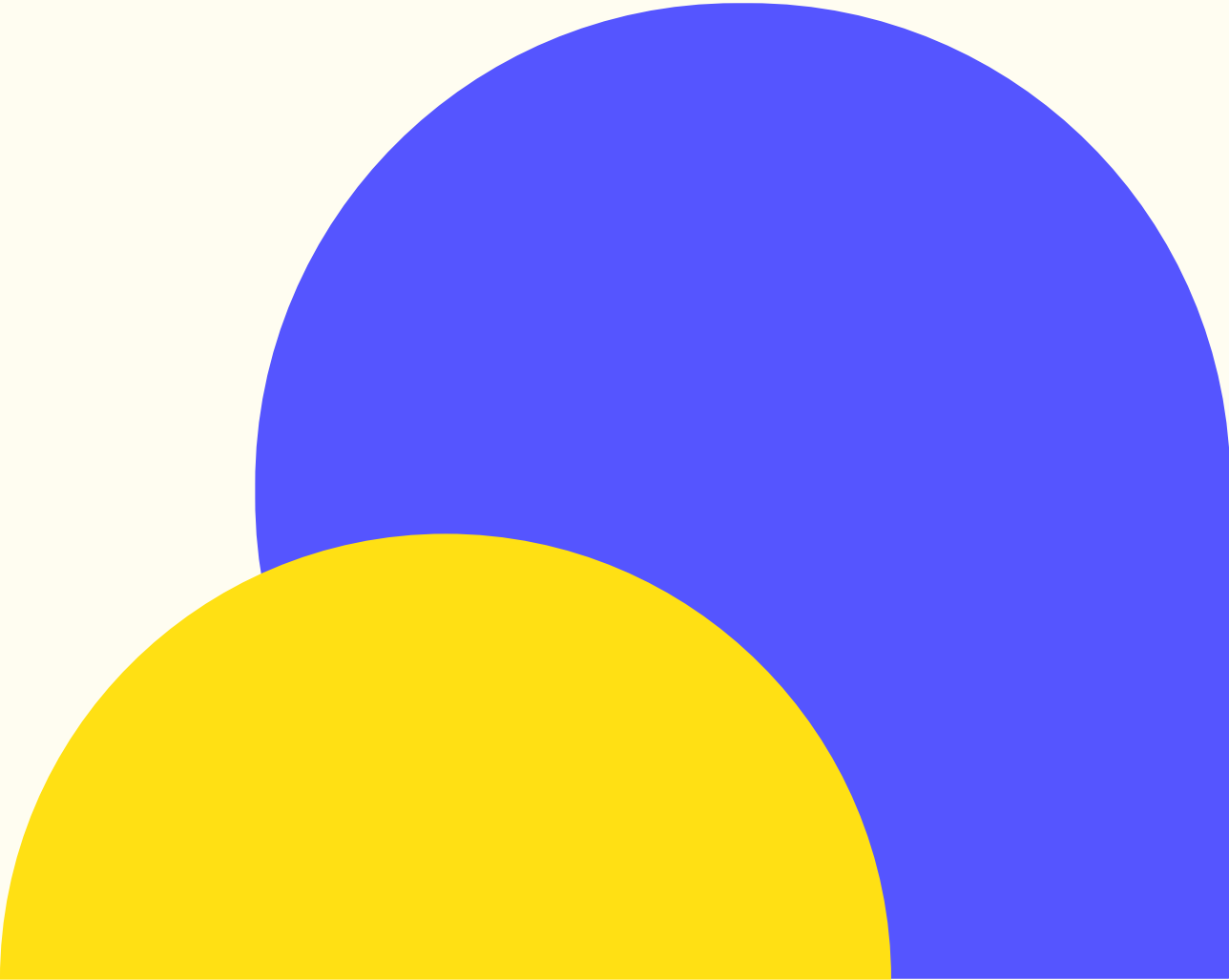
Why Learn C & C++?

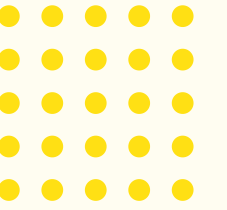
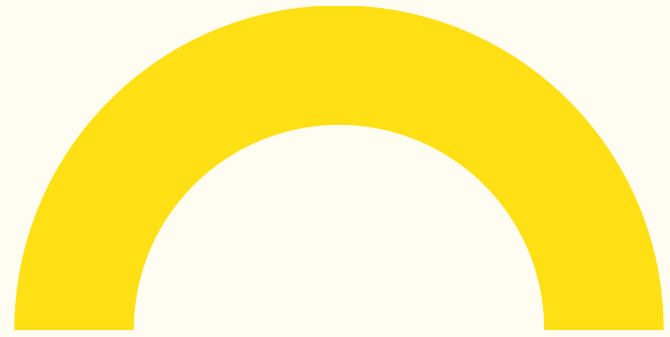
- **C: Foundation of modern languages;** ideal for systems, embedded programming.
- **C++: Adds object-oriented and advanced features;** used in software engineering, games, and performance-critical applications.
- Valuable for careers in software development, systems, and engineering domains.





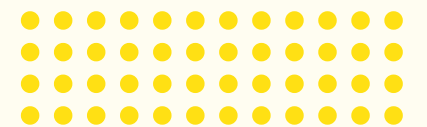
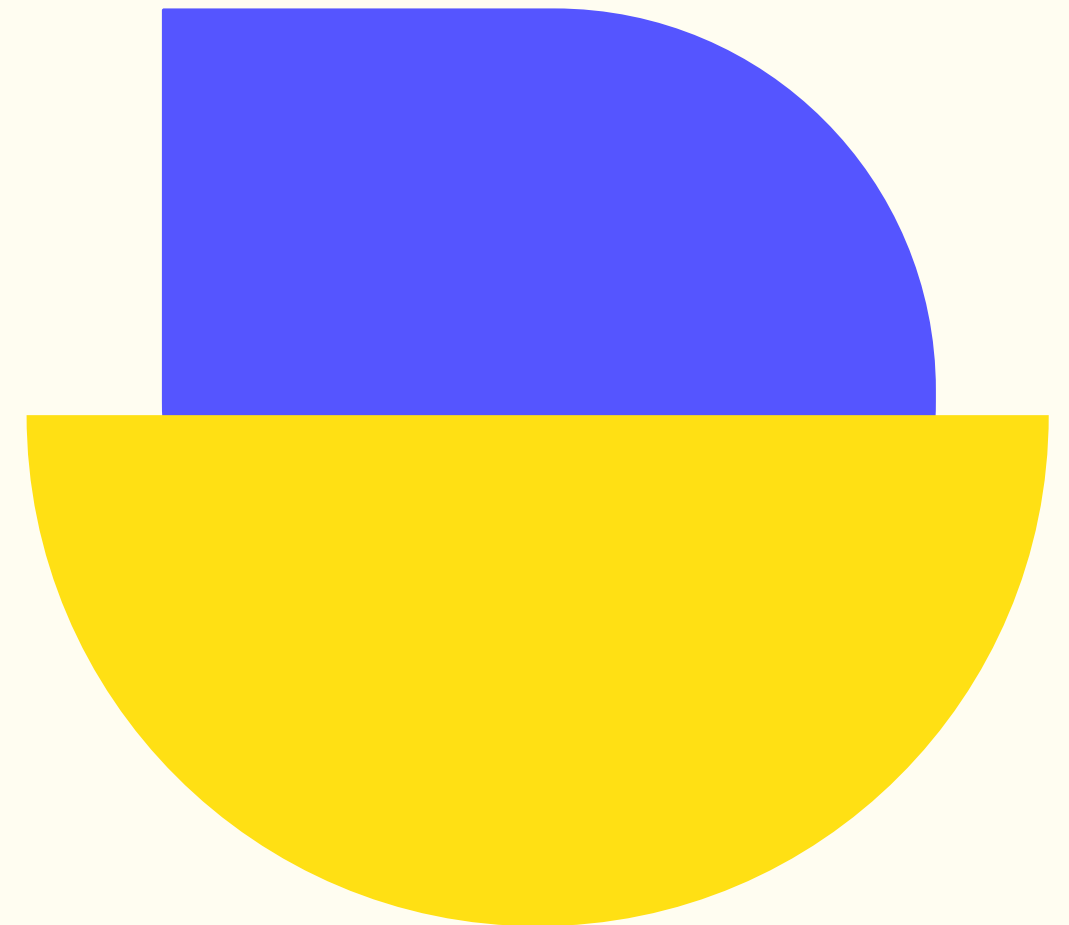
Course Module 1: C Fundamentals

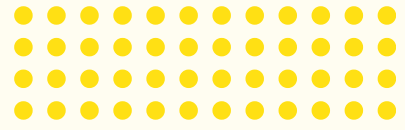
- Introduction to C language basics.
 - Variables, data types & operators.
 - Input/output statements, program structure.
 - Control flow: if-else, loops (while/for).
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Course Module 2: C Advanced Concepts

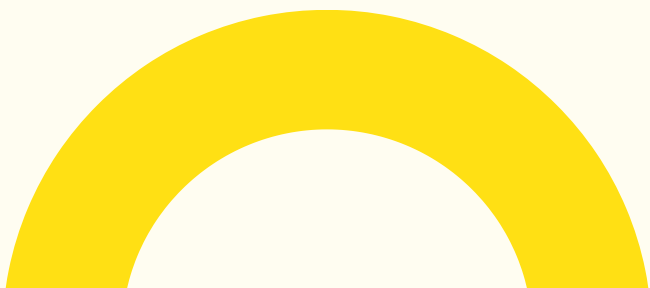
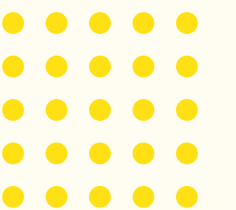
- Functions & modular programming.Unique technology or tools used
- Arrays, strings & pointers.Key benefits for users
- Memory management basics (pointers).
- File input/output operations.

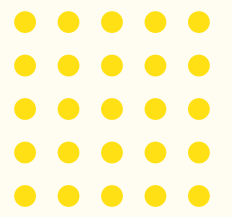
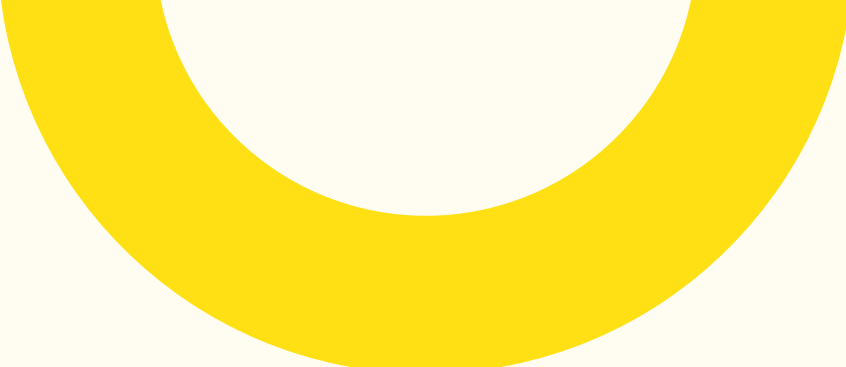





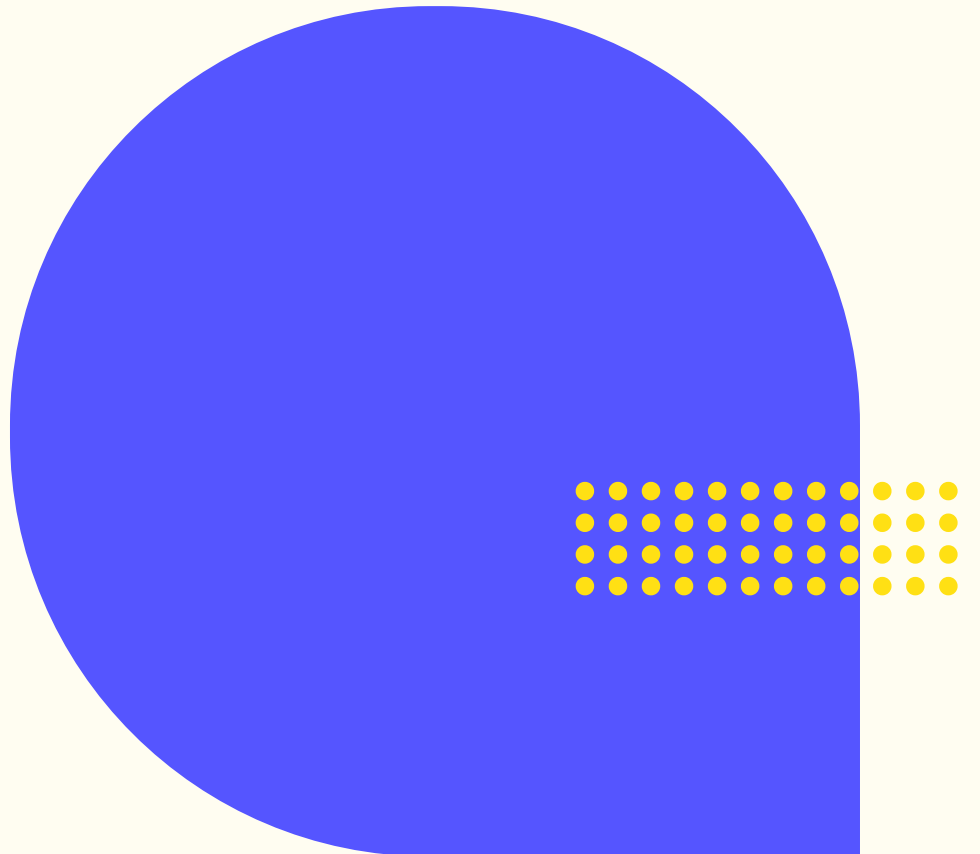
Course Module 3: C++ Basics

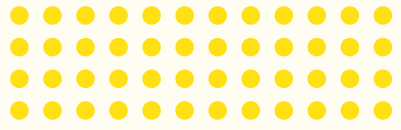
1. Introduction to C++ and setup.
2. Classes & objects.
3. Constructors & destructors.
4. Object-oriented principles: encapsulation, abstraction.





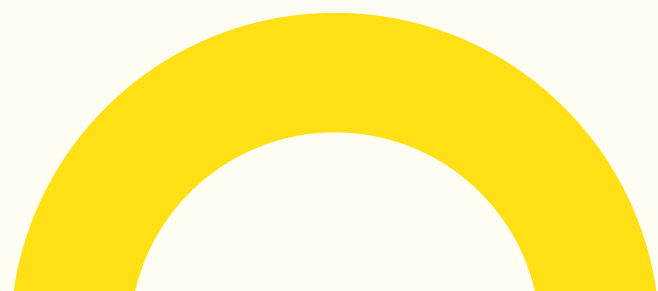
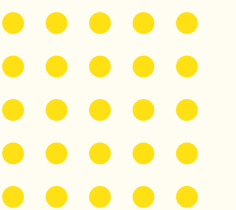
Course Module 4: Object-Oriented Programming (OOP)

- Inheritance and polymorphism.
 - Function & operator overloading.
 - Templates and basic generic programming.
 - Exception handling and advanced features.
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Practical Projects & Hands-On

- Coding exercises for real problem-solving.
- Mini projects combining C & C++ skills.
- Debugging and testing practice.
- Experience with IDEs and compilers.





Thank You

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