



# C++ Programming

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Length: Two days

Level: Beginner

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## DESCRIPTION

This course provides a solid foundation in C++. You gain an understanding of key object-oriented programming concepts and valuable hands-on experience developing C++ programs.

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## OBJECTIVES

Upon completion of the course, participants will be able to:

- Read and understand C++ syntax
  - Create, compile and run C++ programs
  - Write functions, decisions and loops
  - Declare, use and distinguish variables, constants, arrays, pointers and references
  - Define and implement classes to produce reliable, reusable code
  - Implement object-oriented designs using encapsulation, inheritance and polymorphism
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## TOPICS

- Types, statements, and functions
  - Pointers and references
  - Source Files and Programs
  - Classes
  - Encapsulation
  - Inheritance
  - Polymorphism
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## AUDIENCE

- Software Developers
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## PREREQUISITES

- Course *C Programming* or equivalent.
- Course *Object-Oriented Analysis with UML* or equivalent.