

# C++ Language – Introduction into C/C++ Language

Course code: CPP\_INTRO

The course is intended for people with a basic knowledge of programming who want to learn skills in the standard C language and object-oriented C++ language.

## Who is the course for

The course is intended for programmers, testers and project leaders who want to learn about C and C++.

## What we teach you

Fundamentals of programming in C and language syntax

Data types, operators and expressions

How to indicators, dynamic structures

How to use standard libraries

Fundamentals of object-oriented programming

Abstract classes, inheritance, polymorphic structures

Designing event-driven programmes

## Required skills

Basic knowledge of algorithmization and programming

PC use skills

## Course Outline

Introducing to C/C++ programming

- Architectural overview
- Structure of program in C/C++
- Compilation
- Preprocessor

C/C++ Fundamentals

- Functions
- Parameters
- Variables
- Return values
- Data Types
- Operators
- Expressions
- Controlling program execution

Pointers, Arrays and Strings

- Using pointers
- Using Arrays
- Using Strings

Input and Output (I/O)

- Standard I/O
- Working with files
- Formatted and Unformatted I/O

Compiler C++

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# C++ Language – Introduction into C/C++ Language

- Enhancements of C++
- References and Pointers
- Overriding of functions
- Standard I/O in C++
- Overriding of functions in C++

## Standard Libraries of C++

- Object String
- STL containers
- Introduction to Object Oriented Programming

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