

# Sela.



CPP20Update

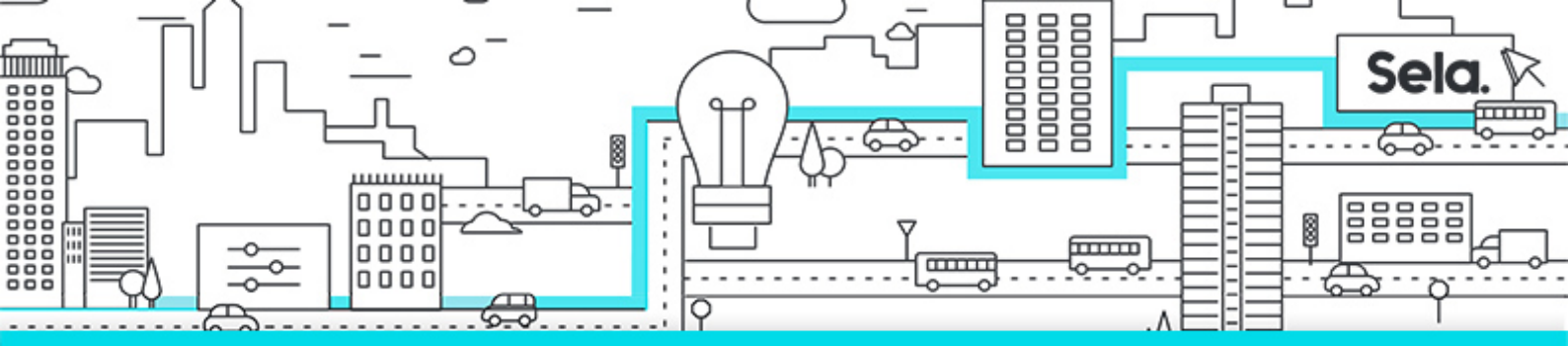
## C++20 Update for C++ Developers



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# C++20 Update for C++ Developers

CPP20Update - Version: 1

## 3 days course

### Description:

A three-day instructor-led course covers the new features in C++20 language and standard library. C++20 is a major update to the language and includes new additions like immediate functions, concepts, coroutines and modules and also enhancements to existing language features like lambdas and constexpr virtual functions. With C++20 the language becomes more powerful and capable and enables writing more correct and efficient code.

### Intended Audience:

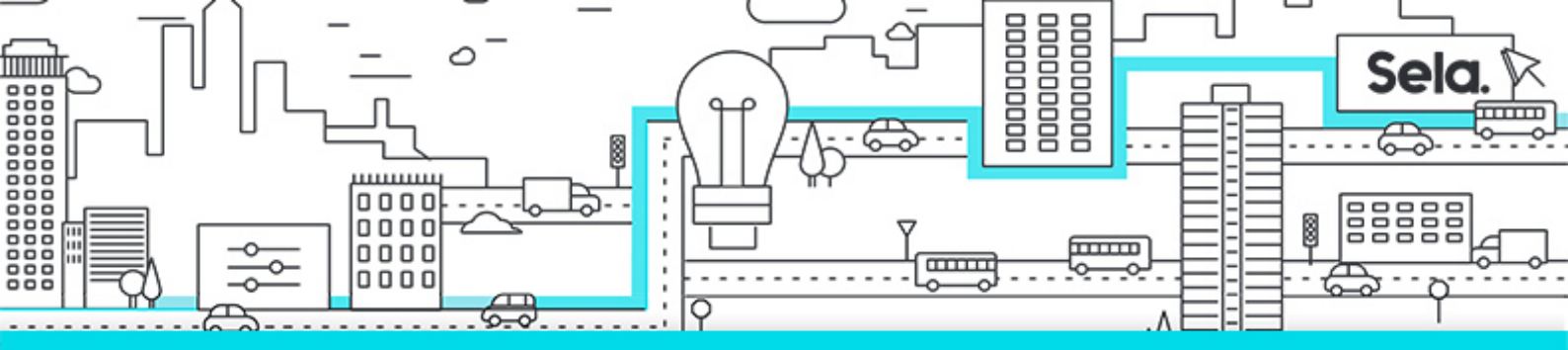
C++ Developers with experience in C++11/C++17 standards

### Prerequisites:

- Experience in programming with modern C++ is a must.
- Experience with C++17 is preferable.

### Objectives:

- Become versed in C++20 language features and core standard library facilities new in C++20
- The participants will understand the new additions to the language.
- The participants will understand the purpose and optimal usage of new library additions.
- The participants will be able to understand the internal workings of coroutines.
- The participants will be able to use the new module system.
- The participants will be able to use the new synchronization facilities.



## Topics:

### • Core Language

- Basics
- Compile Time
- Range-based for loop with initializer
- `[[no_unique_address]]` attribute
- `[[likely]]` and `[[unlikely]]` attributes
- Class Related
- Template Related
- Lambda Expression Enhancements
- Constraints
- Concepts
- Coroutines
- Modules

### • Standard Library

- Formatting Library
- Threading
- Ranges Library