

# C++ Training Content

(Part of Creo Toolkit & CATIA CAA Customization Training)

## Basic C++ Concepts

- Basic C++ Concepts
- Introduction to C++
- OOPS Basic Concepts
- Basic Syntax and Structure
- Data types and Modifiers
- Variables in C++
- Operators in C++
- size of and typedef in C++
- Decision Making
- Loop types
- Storage Classes
- Functions

## OOPS Concepts

- Classes and Objects
- Access Controls in Classes
- Defining Class and Object
- Accessing Data Members
- Member Functions in Class
- Types of Member Functions
- Inline Functions
- Function Overloading
- Constructor and Destructor
- Initializer List
- Namespace
- Static Keyword
- Const Keyword
- References
- Copy Constructor
- Pointer to Members

## Advanced Concepts

- Introduction to Inheritance
- Types of Inheritance
- Order of Constructor Call
- Upcasting
- Function Overriding
- Virtual Functions
- Abstract class and Pure Virtual Functions
- Virtual Destructors
- Operator Overloading
- File Streams
- Exception Handling
- Memory Management
- Multithreading

## C++ MISC

- C++ Namespaces
- C++ Strings Handling
- C++ Exception Handling
- C++ try/catch
- C++ User-Defined
- C++ Templates
- C++ Signal Handling
- C++ File & Stream
- C++ getline()

Anyone who wants to be trained on **Creo Toolkit** or **CATIA CAA** must have good knowledge on the above mentioned topics.