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C & C++ DEVELOPMENT COURSE

Litz tech is the **Best C/C++ training institution** in Coimbatore. Our trainers provide an excellent C/C++ hands-on training in practical skills and knowledge. C++ is a general-purpose language built with Object orientated programming patterns. It's largely considered an intermediate level language because it has the options of each low-level and high-level programming. It's one of the powerful languages enforced and used widely on several hardware and operating systems. Though several computer languages are applied to write applications, C and C++ are the most popular languages that are deployed worldwide.

KEY FEATURES OF C & C++ PROGRAMMING

- ➔ You will be taught the basics and programming concepts of OOPS clearly.
- ➔ Since C is a structure-based programming language, you will learn more about its logical usages.
- ➔ You will learn clearly how to bring the features of Functions and Pointers into C and C++ programming
- ➔ Our ensured practical hands-on training covers the complete features of programming to an individual.
- ➔ Since C++ has the basic foundation for programming, we will incorporate a strong training methodology for your sustainment.

WHY C & C++ PROGRAMMING COURSE?

This **C and C++ Development Certification course** is designed to give you an essence of front-end, and back-end technologies. You will learn to build end-to-end websites, test and deploy code, and store data and much more

Learning C, C++ Programming Classes in Coimbatore at Litz tech. gives you the basic knowledge that enables developers to write programs in any new language in the future.

Everything ranging from Operating Systems to Microcontrollers is written in C since it is a versatile and flexible language.

- ➔ Train from professionals with industry experience
- ➔ Learn theoretical concepts and gain hands-on training simultaneously

- ➔ Real time Hands-On Practical Experience Training to imbibe corporate practices
- ➔ Get certified at the end of the training
- ➔ Receive placement support once the training is completed.
- ➔ Getting exposure to latest technology up gradations.
- ➔ Advanced lab facility and most updated syllabus and materials will be provided with learning tools for easy learning
- ➔ You will have the access to contact the trainers at any time.

Course Syllabus

C & C++ DEVELOPMENT COURSE HIGHLIGHTS

C and C++ development is a traditional and popular coding language right from its existence and is currently in high-demand. C and C++ development is an exciting career path for both freshers and experienced individuals

- Programming in 'C'
- Control Statement and Expressions
- Arrays and String
- Functions
- Pointers
- Structure and Unions
- File Handling
- Storage Classes and Pre-processor
- Programming in 'C++'
- Keywords and Identifiers

- Classes & Objects
- Function in 'C++'

- Constructors and Destructor
- Inheritance
- File Handling
- Exception Handling

OVERVIEWS

Programming in 'C'

Introduction of Programming Languages

- Structure of a 'C' Program & life cycle
- Keywords and Identifiers
- Operators Constants Variables
- Data Types & Precedence of Operators
- Scope and Lifetime of Variables

Control Statement and Expressions

- Types of if ...else block
- Switch case Block
- GOTO statement
- For loop
- While loop & do while loop
- Jumping in Loop
- break and continue statement

Arrays and String

- Introduction of Array
- One Dimension & Multidimensional
- String Variables
- String handling
- A very simple HTML document exercise

Functions

- Concept of Function
- User defined Function
- System Defined Function
- Types of parameters passing in function

Pointers

- Need of Pointers
- Types of Pointers Pointer
- Expression Arrays of Pointers
- Pointers and Functions

Structure and Unions

- Need of Structure
- Implementing Structure
- Variable Arrays of Structure
- Unions
- Difference between Structure and Unions

File Handling

- Opening and Closing File
- Input / Output operations
- File Random Access
- Dynamic Memory Allocation
- Concept of Dynamic Allocation
- Implementing Malloc and Calloc

Storage Classes and Pre-processor

- Introduction of Storage Class • Types of Storage Classes
- Introduction of Pre-processor

- Project Structure
- Macro Substitution File Inclusion

Programming in 'C++'

Introduction to Object Oriented Programming

- Concept of OOP & Features of OOP
- Introduction of 'C++'
- Structure of 'C++' program
- Executing and Debugging
- Tokens and Type Casting

Keywords and Identifiers

- Operators Constants Variables
- Data Types
- Precedence of Operators
- Scope and Lifetime of Variables

Classes & Objects

- Classes & Object
- Array of objects
- Managing console I/O

Function in 'C++'

- Call by reference
- Return by reference
- Function overloading and default arguments
- Inline Friend Virtual Function
- Static class members

Constructors and Destructor

- Concept of Constructor
- Memory allocation
- Usage of destructor
- Operator Overloading
- Unary and Binary operators
- Overloading using friend function

Inheritance

- Types of inheritance
- Virtual base classes and abstract base classes
- Constructor and destructor

File Handling

- File operations
- File pointer and their manipulation
- File updation with random access

Exception Handling

- Various Exception
- Handling classes
- Implementing try and catch block
- Use of throw keyword