



# C Programming

Start your programming Journey with C

**Curriculum Brochure**

# C Programming Language

## TRAINING

C programming language is a widely-used procedural programming language that was developed in the 1970s by Dennis Ritchie at Bell Labs. It is a low-level language that provides direct access to computer hardware, making it a popular choice for system programming, embedded systems, and operating systems. C is also used in the development of applications for desktop, mobile, and web platforms.

One of the main advantages of C programming language is its portability. C code can be compiled and executed on a wide range of platforms, including Windows, Linux, macOS, and various embedded systems. This makes it an ideal choice for cross-platform development, where code needs to run on multiple devices or operating systems.

Another advantage of C programming language is its efficiency. C code can execute at near-native speeds, making it a good choice for high-performance applications like video games, scientific simulations, and financial modeling. C also has a small memory footprint, making it a good choice for resource-constrained systems like embedded devices.

Learning C programming language is important for getting a job in the technology industry for several reasons. First, C is a fundamental language that is used as a building block for many other languages, including C++, Java, and Python. By learning C, you will develop a strong foundation in programming that will make it easier to learn other languages later on.

Many companies in the technology industry require knowledge of C programming language for certain job roles, especially those related to system programming, embedded systems, and operating systems. For example, if you want to work on developing an operating system, knowledge of C programming language is essential.

Finally, learning C programming language can make you a more versatile and valuable candidate in the job market. C is a widely-used language that is used in a variety of industries, including aerospace, defense, automotive, and telecommunications. By learning C, you will open up opportunities to work in these industries and develop skills that are in high demand.

C programming language has a wide scope in the technology industry, and learning it can open up a variety of job opportunities. By learning C programming language, you will develop a strong foundation in programming and increase your value as a job candidate in the technology industry.



# C Programming Training Program

This program is designed to train students with the skills and experience to understand the C programming concepts and write programs to solve complex problems.



## Practical Based Sessions

Training program available in four months & six months duration



## Dummy Projects

To build your hands-on expertise & portfolio



## Resume Building Assistance

To create an attractive resume for your candidature



## Interview Preparation

So you can present your skills in a better way



## Mentoring & Job Assistance

To help you in getting good career or placements

## Who can join

Any student can join the C programming training program . The student must have interest in programming with basic computer knowledge.

Students from any specializations of B.Tech / M.Tech / BCA / MCA / B.Sc. / M.Sc, who are looking to learn programming and enhance their practical skills can join the C programming training program.

Working professionals or job seekers, who are looking to enhance their programming skills can join the C programming training program.

## Training Mode

### Online Live Classes are available

- 4x more effective way of learning
- Hands-on experience with projects & assignments
- Virtual class with real interaction with trainer
- Monitoring support & troubleshooting issues
- Masterclass from industry experts & leaders
- Live class recordings for revision purpose

## C Programming Training in Agra



### Learn2Earn Labs

F-4, First Floor, Anna Ikon Complex, In Front of Deviram Food Circle, Sikandra-Bodla Road, Sikandra, Agra, Uttar Pradesh – 282007

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# Training Modules

## Objectives :

The course aims to teach students how to write efficient and effective C programs that can perform a variety of tasks, from basic console applications to complex algorithms and data structures. Additionally, the course will focus on teaching good programming practices, including proper code organization, efficient memory management, and error handling, and prepare students for a career in the technology industry by equipping them with the knowledge and skills needed to become proficient programmers.

### Module 1 : Basic (30 Hours/Days)

Introduction to C Language, Simple C Program, Program execution phases, Backslash character constants, Character set, Constants, Number systems, Format specifiers, Identifiers, Keywords, Variables, Data Types, Arithmetic operators, Increment and decrement operators, Relational operators, Logical operators, bitwise operators, assignment operators, conditional operator, size of operator, comma operator, Type casting operator, data types, input output library functions, control statements (if-else, switch-case, for, while, do-while, nested loop, jump control statements, break, continue, goto, exit, return), functions, return statement, recursion, library functions, local and global variables, storage classes, Pointers, Pointer to Pointer, Pointer Arithmetic, De-reference & increment pointer, pointer to function, Array, types of Arrays, accessing array elements, Pointer to array, Array & functions, Malloc, calloc, realloc, free, core dump, memory leak.

### Module 2 : Advance (30 Hours/Days)

Introduction to String, gets() & puts() functions, String handling functions, Structure, accessing structure members, size of structures, reading and displaying structure variables, array to structure, nested structures, self-referential structures, structure and functions, Union, enum keyword, typedef keyword, introduction to file handling, buffer and streams, working with text files and binary files, file operations using std library and system calls, file management I/O functions, random access files.

### Module 3 : Assignments & Interview Preparation

This module is available for those who enroll in 60 days training program of C programming. The candidate will go through various assignments, and case studies to get hands-on experience. The candidate will also get trained in respect of cracking the viva and interviews.

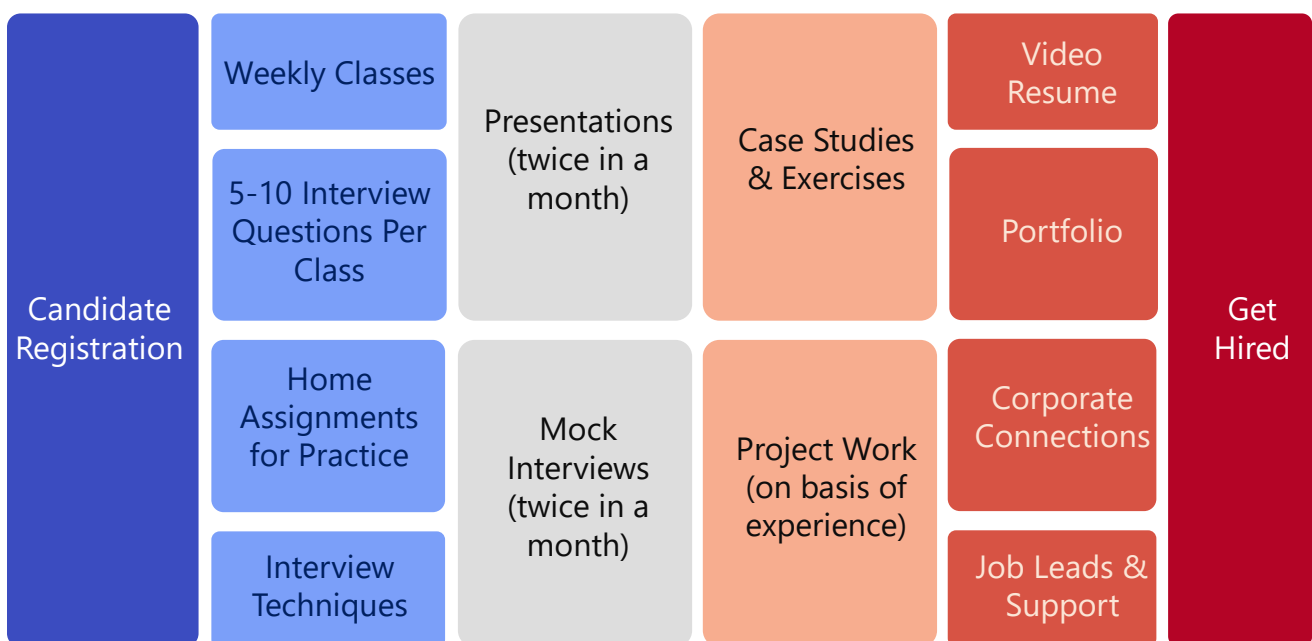
### Module 4 : Minor Project Work

This module is available for those who enroll in 60 days training program of C Programming. The candidate will get the benefits of project guidance & project work during the training.

## We follow a dynamic & vibrant Job Assistance Execution Path



In present scenario providing job surety is easy, only we need to focus on outcome based learning and practical work enhancement. We know that every candidate is enough capable to understand the concepts and implement those concepts for improving his/her practical knowledge and experience.

Hence we are following a dynamic & vibrant Job Assistance Execution Path while conducting our job guarantee training programs and job assistance training programs. We are proud to say that we prepare candidates who can perform better throughout their professional journey and will always remains unbeatable.



## We also offers

### Variety of Job Oriented Training Programs

 <p>Java Full Stack Duration : 4 months   6 Months</p>	 <p>Full Stack Web Development Duration : 4 months   6 Months</p>	 <p>8 LPA+ Job Guarantee Full Stack Software Engineer Duration : 1 Year   600 Hours</p>
 <p>Cloud Computing &amp; DevOps Duration : 4 months   6 Months</p>	 <p>Digital Marketing Duration : 6 months   1 Year</p>	 <p>Data Science &amp; ML Duration : 4 months   6 Months</p>



## Learn2Earn Labs

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