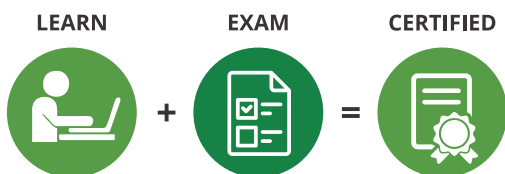




Vendor-Neutral Global IT Certifications

## Star C Programming

**Master The Most Widely Used  
"System Programming Language"**



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# Star C Programming

C is one of the oldest programming languages around and despite the prevalence of higher-level languages, it continues to empower the world. C is a general-purpose language, ideal for building mostly state-of-the-art system applications like OS kernels, databases, embedded systems, and graphics packages that are used by billions around the world.

The Star C Programming course introduces the learners to C programming language, which is a starting level for getting into programming. It starts from programming basics and gives a holistic view of the C Programming language, detailing all the aspects of the C language from data types, to operators and expressions, to if statements, further to loops, arrays, strings and pointers. The course also provides hands-on training to help you write and test your coding skill, and prepare you for real-life application.



**Audience:** This course assumes that the reader is an entrant to the world of programming and that learning C programming language is the first step to it. Also, anyone who wants to brush up their C programming skills would find this course helpful.

## Course Objectives:

In this course, you will learn about:

- Programming basics and the fundamentals of C
- Data types in C
- Mathematical and logical operations
- Using if statement and loops
- Arranging data in arrays
- Implementing pointers
- File management and dynamic memory allocation

## Course Outcome :

After completing this course, you will be able to:

- Develop a C program
- Control the sequence of the program and give logical outputs
- Implement strings in your C program
- Store different data types in the same memory
- Manage I/O operations in your C program
- Repeat the sequence of instructions and points for a memory location
- Apply code reusability with functions and pointers
- Understand the basics of file handling mechanisms
- Explain the uses of pre-processors and various memory models

## Course Outline :

1. Fundamentals of Programming
2. Exploring C Programming
3. Classifying Data using Data types in C Programming
4. Managing Input and Output Operations
5. Performing Mathematical and Logical functions: Operators and Expressions
6. Controlling the Program Order: Decision Making
7. Repeating Sequence of Instructions: Loops
8. Arranging the Same Data Systematically: Arrays
9. Characters Arrays
10. Group of Statements: Functions
11. Storing Different Data Types in Same Memory: Structures and Unions
12. Pointing to a Location: Pointers
13. File Management in C
14. Dynamic Memory Allocation and Linked List
15. Non-Executable Special Lines: Pre-processor Directives
16. C IDEs and Basic Guidelines
17. Labs

## Exam Information:

Exam Code	: S07-110	Exam Pattern	: Multiple Choice
Exam Duration	: 2 Hrs	Exam Delivery	: AEPTC (ACADEMIC EDUCATION & PROFESSIONAL TESTING CENTER)
Passing Score	: 70%		

**Course Duration :** 40 Hrs