Course duration

- 5 days

Course Benefits

- Learn about what C is.
- Work with data types and variables.
- Work with pointers and arrays.
- Learn about structures.
- Learn what they are and how to work with operators and expressions.
- Work with control flow statement.
- Work with functions.

Course Outline

1. Introduction to C
    1. What Is C?
    2. Features of C
    3. Why Program in C?
    4. History of C
    5. Current Status and Future
2. An Overview of C
    1. The First Program (hello.c)
    2. How to Compile and Run a C Program
    3. An Arithmetic Program (roof.c)
    4. Execution Flow Control (mph.c)
    5. The for Loop
    6. The for Loop
    7. Diagram
    8. Character I/O
    9. A File Copier Program (cp2.c)
    10. A Character Counter (wc2.c)
    11. A Look at Arrays
    12. Stock Values (stock1.c)
    13. The char Data Type
    14. Strings (Character Arrays)
    15. A String Copy Program (stringcp.c)
    16. A Look at Functions
    17. A Functional Program (func1.c)
    18. A Review of printf()
3. Data Types and Variables

7. Structure Parameter Passing Again
8. Arrays of Structures
9. The malloc Routine

Class Materials

Each student will receive a comprehensive set of materials, including course notes and all the class examples.

Class Prerequisites

Experience in the following *is required* for this C/C++ class:

- Programming experience with the desire and need to learn the C language.

Experience in the following *would be useful* for this C/C++ class:

- The ability to program in a high-level language such as a Pascal or COBOL is very helpful.
- Basic UNIX user-level skills are also important.