Introduction to C Programming Part 2
Training Course Outline

Course Description:

Do you want to learn how to program in C? Are you looking for an easy way to learn C programming? Our two-part Introduction to C Programming training course is what you need.

This C programming class continues to build on concepts from *Introduction to C Programming – Part 1*. In this C programming course you will learn more complex data types such as arrays, structures and pointers. Solid programming techniques will continue to be emphasized.

Course Objectives:

As a result of taking this C programming course, you will be able to:
- Utilize single and multi-dimensional arrays
- Program with structures
- Implement pointers through a thorough understanding of their use
- Manipulate character strings
- Program with C effectively

Course Prerequisites:

Introduction to C Programming - Part 1 training or equivalent knowledge.

Modular Outline:

Module 00: Introduction to C Programming Part 2 - Course Introduction

Module 01: Basic I/O Part 1
- Redirecting standard in/out
- Controlling the output with print
- Workshop

Module 02: Basic I/O Part 2
- Using scan
- Hazards
- Workshop

Module 03: A Look at Pointers
- Understanding pointers
- Declaring and dereferencing
- Hazards
- Workshop

Module 04: Arrays
- Declaring & initializing arrays
- Utilizing Arrays
- Arrays as a Function Parameter
- Pointers and Arrays

- Workshop

Module 05: Structures Part 1
- Declaring structures
- Initializing structures
- Structures as Parameters
- Pointers to Structures
- Workshop

Module 06: Structures Part 2
- Arrays of structures
- Structures in Structures
- Workshop

Module 07: Structures Part 3
- Structures members
- Workshop

Module 08: Character Strings
- Character arrays vs. Character strings
- String Constants
- Workshop

Module 09: Multidimensional Arrays
- Declaration and initialization
- Utilizing multidimensional arrays
- Pointers and the multidimensional array
- Workshop

Module 10: More on Variables, Types & Scope
- Registers
- Static variables
- Global – extern and private
- Workshop

Module 11: Introduction to C Programming Part 2 - Course Summary