TheTestplace.com

An Introduction to C Programming

Description
This 4-day course teaches participants the key concepts and principles of C Programming.

Format
4 days 50% lecture 50% lab exercises

Participants
The course is intended as an introduction to C for participants with little or no C experience.

Prerequisites
Delegates need good general computing experience and preferably should have some programming experience.
Delegates need to understand the concept of files and directories and be familiar with the use of a text editor.

Working knowledge of Windows® or Linux®/Unix® operating systems

Presentation Requirements
The maximum number of delegates for the course is 12

A room that allows delegates to both work freely at their workstation and view a screen

Direct project from computer system for Tutor for display of slides and demonstration of Programming

PC to screen projector
Whiteboard or flipchart

Course Outline
Introduction And Overview
Key features of C, portability, performance
Support of structured programming
Separate compilation of modules, Standard function libraries
Applications of the C language
Program structure
Lexical elements
Data and code statements
C software development life cycle
Data Types, scalar types, variables and constants;
Storage modifiers, Initialising variables
Operators and Expressions
Declarations
Statements
The C Preprocessor
The Standard C pre-processor
Defining and calling macros
Utilizing conditional compilation
Passing values to the compiler
The Standard C Library
Diagnostics
Character Handling
Localization
Mathematics
I/O
General Utilities
String Handling
Date and Time

On-Site Equipment Requirements
To deliver the course each delegate should have individual access to a system, the system shall have:

A ANSI/ISO C Compiler
A text editor

An Account on the system that allows a user to compile and execute programs and modify their environment variables

Winzip or equivalent

Additionally it must be possible for the course materials including lab exercises to be transferred onto the systems from an ISO 9660 CD-ROM

If no suitable equipment is available then TFJ can arrange for the hire of equipment for the duration of the course.

Course Materials
Course notes, slides and exercises are supplied in Adobe Acrobat format files (suitable for PC, Mac, and Unix)

Lab exercises are supplied in text files (Unicode UTF-8)

Tel:+44 (0)190 864 5717 Fax +44 (0)870 054 8815