

Course overview:

Microsoft C++ .NET

(S440eng)



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Overview and objectives

This five-day course covers basic programming concepts and teaches students how to build a program using the C++ .NET programming language. Students will learn the differences between low-level and high-level languages. They will also learn how to use C++ to program variables, constants, control structures, value-returning and void functions, selection structures, loops, and arrays. Students will learn how to build, execute, and debug a C++ program, as well as how to implement sequential access files and access data from a database

Who should attend?

Students should have a basic understanding of programming before attending this course.

Computers and programming languages

- Components of a PC system • History of programming languages

Control structures

- Introducing control structures • Applying control structures

Problem solving

- Problem-solving techniques • Building an algorithm

Programming basics

- Variables and constants • Working with variables • Input and output methods

Building an application

- Program construction • Creating and managing a project

Value-returning functions

- Functions • Implementing value-returning functions

Void functions

- Introducing void functions • Implementing void functions

Selection structures

- Introducing selection structures • Implementing selection structures

Nested selection structures

- Introducing nested selection structures • Multiple-path selection structures • Implementing nested selection structures

Pretest loops

- Introducing pretest loops • Applying pretest loops

Posttest loops

- Introducing posttest loops • Applying posttest loops

Object-oriented programming

- Introducing object-oriented programming • Implementing object-oriented programming
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Sequential access files

- Introducing sequential access files • Writing and reading sequential access files • Implementing a sequential access file

Arrays

- Introducing arrays • Implementing arrays

Advanced arrays

- Understanding advanced arrays • Implementing String arrays

Accessing data from a database

- Introducing data access • Implementing database access

ASCII codes

- The ASCII table

Built-in mathematical methods

- Using built-in mathematical methods

Pointers

- Using pointer variables

Web pages in C++

- Displaying Web pages

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