

Course Outline | Microsoft Learning to Program with Visual Basic

4 day(s)

Overview

If you are new to programming, this is the place! VB .NET from the very ground up will be explained. Maybe those of you who are more code-wise ought to see our VB for Existing Developers.

Prerequisites

None.

Course Outline

WHERE DO I BEGIN?

- Programming the Easy Way
- The systems development life cycle (SDLC)
- Output Design
- Input Design
- Processing Design

GETTING COMFORTABLE WITH VB

- Writing our first VB program
- Elements of a VB program

DATA

- Computer data
- Variables
- Constants
- VB data types
- Numeric data types
- Nonnumeric data types
- The string object
- Operations on data
- Arithmetic operations
- Comparison operators
- Logical operators

SELECTION STRUCTURES

- The if statement
- Getting input into your program
- The if...else statement
- String response
- The Select Case statement
- An introduction to windows
- Windows out

LOOPS

- Why loops?
- The for loop
- DO loops

CREATING YOUR OWN METHODS

- Modular programs are easier to maintain and understand
- What is a method?
- Creating your own methods...

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- Method header
- Access modifiers
- The return type
- Method parameters and arguments
- Method overloading

CREATING OBJECTS FROM INSTANTIABLE CLASSES

- Objects Have Data
- Objects Have Behaviour
- Changing an Object's Attributes
- Calling an Object's Methods
- Destroying an object

ARRAYS

- Why arrays
- What's an array?
- Declaring and initializing an array
- Adding data to the elements of an array
- Multiple dimensioned arrays
- Creating arrays of objects

EXCEPTION HANDLING

- Common beginner errors
- Compiler errors
- Runtime errors/logic errors
- VB error handling
- VB exceptions
- Try-catch-finally blocks

DEVELOPING A GRAPHICAL USER INTERFACE

- Building a graphical user interface
- Designing our GUI
- Creating our GUI summary

EVENT HANDLING

- VB event handling
- What's an event?
- What's an event procedure?
- Implementing a simple event handler in your code