

Excel Programming with VBA

Course Overview

VBA (Visual Basic for Applications) is the programming language used in Microsoft Excel. With this programming language, you can automate repetitive operations, create custom commands, develop new worksheet functions, and more. At NYIM's VBA classes in New York City, you will learn the fundamentals of VBA programming in hands-on, instructor-led training.

Learn to Program & Create Macros in Excel

The Excel Programming with VBA course concentrates on practical automation of repetitious Excel tasks and reports. In this VBA & Macros training course, you will write macros to automate your Excel tasks even if the data is not consistently formatted, create custom Excel applications and environments, and create custom Excel Add-ins to increase the functionality of the program. This VBA course is perfect for those consistently working with Excel who need to automate repetitive tasks.

VBA Macros Day 1

1. Macros / VBA

What are Macros?
What is VBA?
How to record macros
How to run macros

2. VBA Editor

Modules
Procedures
Project Explorer
Toolbars / Options

3. Creating / Editing Code

Create Procedures
Subs
Comments

4. Invoking Macros

Hot Keys
Quick Access Toolbar
Call Command

5. Compiling Code

Stepping through code
Reset
Run

6. Variables

Declarations
Option Explicit
Data Types

7. Working with The Object Model

Worksheets
Ranges: Rows, Columns, Cells

8. Creating & Naming Objects

Naming conventions
Housekeeping

9. Navigation / Selection Techniques

Formula RIC1 Reference Style
Offsets
Range Names

10. Logic Statements

IF Statements

11. Looping Statements

Do Loops

12. Interactive Code

Input boxes
Message boxes

13. Error Handlers

Preventing fatal errors and crashes

VBA Macros Day 2

1. VBA Editor

Project Explorer
Properties Window
Modules

2. Creating / Editing Code

Functions
Events

3. Invoking Macros

Worksheet Buttons
Customize Ribbon

4. Compiling Code

Stepping through code
Setting Breakpoints

5. Variables

Declarations
Option Compare Text
Option Compare Binary
Lifetime and Scope

6. Working with The Object Model

Application
Workbook

7. Creating & Naming Objects

Naming conventions
Housekeeping

8. Navigation / Selection Techniques

Absolute versus Relative Reference
Offsets

9. Logic Statements

Nested IF Statements
Case Statements

10. Functions

Intrinsic Functions
User Defined Functions

11. Looping Statements

For Each Next Loops
12. Interactive Code
User Forms - dashboards
Message Boxes

13. Error Handlers

Error numbers
Error descriptions