

# Excel Programming with VBA

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## Course Outline

### VBA Macros Day I

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#### 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
- Preventing fatal errors and crashes

#### 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 R1C1 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

# VBA Macros Day II

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## 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

## 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

## **Contact**

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