

Workshop Aims:

This workshop aims to give an overview of the Visual Basic for Applications (VBA) programming language with particular respect to the Microsoft Excel object model.

Workshop Program:**TOPIC****MACROS IN EXCEL**

- The Excel macro recorder
- The Visual Basic Editor
- Creating & modifying macros

VISUAL BASIC FOR APPLICATIONS

- Simple console & file I/O
- Data Types
- Variables
- Declaring & using variables
- Variable scope & persistency
- Conditional statements
- Loop statements
- Debugging techniques

MODULAR PROGRAMMING

- Program design
- Procedures & Functions
- Built-in intrinsic functions
- Event driven programming
- Event procedures
- Parameters – ByVal & ByRef
- Error handling
- Classes in VBA

USER INTERFACE

- The toolbox
- Using controls on worksheets
- Providing help
- Creating Add-ins

THE EXCEL OBJECT MODEL

- How to use objects
- Collections
- The Excel object model
- Object Browser
- The Application Object
- Workbooks & worksheets
- Controlling Excel features – Protection, visibility

Target Audience:

This workshop is intended for analysts who need a basic knowledge of the internals of Microsoft Excel & who need to be able to leverage the power of the Visual Basic for Applications programming language combined with the Excel object model to create powerful alternatives / extensions to the existing Excel macro capabilities.

Assumed Knowledge:

Delegates will be assumed to have a working knowledge of the Microsoft Excel application.