# Advanced VBA

## 2 day training course







## Course contents

This course will cover the following topics. Those marked with (*) will be covered if time allows.

### Revision of VBA

- Objects and collections
- Methods and properties
- Using object variables
- Looping over collections

### Links to other applications

- Referencing other applications
- Instantiating objects
- Writing inter-application code

### FileSystemObjects

- Referencing FileSystemObjects
- Working with files and folders

### FileDialogs

- Using FileDialogs
- Allowing multiple selection

### Working with text files

- Avoiding using INPUT/OUTPUT
- Reading and writing text files

### Class modules

- What is a class?
- Designing classes
- Creating properties and methods
- Consuming classes

### Advanced class modules topics (*)

- Untyped collections
- Creating typed collections
- Creating event sinks

### Linking to data

- ADO or Access Database Engine
- Referencing the right library
- Opening and using recordsets

### Arrays

- Creating and populating arrays
- Dynamic arrays
- The PRESERVE keyword

### Passing arguments

- ByRef and ByVal
- Using optional arguments
- Using ParamArray

### Functions

- Declaring functions
- Passing arguments

### Advanced programming ideas (*)

- Using functions in code
- Recursive programming
- Enumerations

### Working with shapes (*)

- Adding shapes
- Positioning shapes
- Formatting shapes