Introduction to VBA Programming (Visual Basic for Applications)

Course Description:
For experienced Microsoft Office-application users who want to write macros and automate Office applications. This course is an introduction to the Visual Basic for Applications (VBA) programming language.

Duration: Instructor-led, group-paced, classroom-delivery learning model with structured hands-on activities
21 hours (3 days)

Course Objectives: For advanced Microsoft Office professionals who want to learn the basics of VBA programming for automating tasks.

Upon successful completion of this course, students will be able to:
- Create, edit, and debug a macro
- Use Visual Basic Editor and the Object Browser
- Use decision structures and loop structures
- Identify compile-time, run-time, and logical errors
- Create VBA forms for user interaction

Prerequisite: Must be an experienced Microsoft Office user, with strong emphasis in Excel and Access.

Course Outline	
Object Oriented Programming Concepts	**Interactive VBA**
	• Dialog Boxes
Visual Basic Editor	• Creating Forms
• VBE Window	
• Objects	**VBA Debugging Tools**
• Object Browser	• Errors in Code
• Developer Environment	• Debugging Techniques
	• Handling Runtime Errors
Programming Basics	
• Data Types	**VBA with Office Applications**
• Variables	• Events
• Logical Operators	• Working with Access VBA
• Arithmetic Operators	• Working with Excel VBA
• Relational Operators	
Control Structures	
• Decision Structures	
• Loop Structures	