

Excel VBA Programming for Chemical Engineers (CH766VTL)

Virtual Course

10:00 – 11:30¹ Session 1

Getting Started with VBA

- Configuring Excel for VBA programming
- The Visual Basic Editor environment
- Recording and editing macros
- Debugging in the Visual Basic Editor

12:00 – 1:30 Session 2

User-Defined Functions

- Programming user-defined functions (UDFs)
- Including programming structure in UDFs
- Borrowing Excel spreadsheet-based functions
- Developing array functions
- Packaging collections of functions in an Excel add-in

2:30 – 4:00 Session 3

Delving into VBA Programming

- Communicating with the spreadsheet
 - Object-oriented concepts
- Data types and scope
- VBA programming structures
- Modular organization of VBA programs

4:30 – 6:00 Session 4

User Interfaces and VBA Applications

- Message boxes, input boxes and on-sheet buttons
- Programming event handlers
- Designing and creating userforms
- Integrating course concepts into an Excel VBA application
- Interfacing with external programs

¹ Note: Times given are Eastern time zone.