Excel VBA Programming for Chemical Engineers (CH766VTL)

Virtual Course

10:00 – 11:30 1  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
    o 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.