

Course Title: Excel VBA Programming for Chemical Engineers

Course ID:	Course Type:
CH766	Instructor-led (classroom) Course
http://www.aiche.org/ch766	

Course Schedule

Day One

7:30 – 8:00	Registration
8:00 – 9:45	Getting Started with VBA <ul style="list-style-type: none"> • Configuring Excel for VBA programming • The Visual Basic Editor environment • Recording and editing macros • Debugging tools
9:45 – 10:15	Morning Break
10:15 – Noon	User-defined Functions <ul style="list-style-type: none"> • Programming user-defined functions (UDFs) for engineering formulas • Including programming structure in UDFs • Developing array functions and borrowing Excel functions • Packaging collections of functions in an Excel Add-in
Noon – 1:00	Lunch Break
1:00 – 2:45	Delving into VBA Programming <ul style="list-style-type: none"> • Communicating with Excel – object-oriented concepts • Data types and scope • VBA programming structures • Modular programming organization
2:45 – 3:15	Afternoon Break
3:15 – 5:00	User Interfaces and VBA Applications <ul style="list-style-type: none"> • Message boxes, input boxes and user forms • Programming event handlers • Integrating course concepts into an Excel/VBA application • Interfacing with outside programs – process simulator example