Spreadsheet Problem-Solving for Chemical Engineers (CH764VTL) *Virtual Course*

Day 1 10:00 . 11:30¹ Session 1 Basic Spreadsheet Skills Configuring Excel for engineering calculations Efficient spreadsheet manipulations

12:00 . 1:30 Session 2

Basic Spreadsheet Skills

Formulas, cell addressing, and range names Creating engineering graphs

2:30 . 4:00 Session 3 Process Calculations names

2:30 . 4:00 Session 3

Numerical Problem-Solving

Solving algebraic equations and systems

- Single nonlinear equations
- Sets of linear equations
- o Sets of nonlinear equations

Numerical solution of differential equations

4:30 . 6:00 Session 4

Numerical Problem-Solving

Optimization calculations

Capstone design calculations

Process economic evaluation

• Cash flow and profitability