

HONEYWELL UNISIM DESIGN: ADVANCED – PROCESS MODELLING USING UNISIM DESIGN

COURSE OVERVIEW

Course Number: USD-0002

Course Duration: 2 Days

Prerequisite Course (s): USD-0001

Learn how to use and apply advanced modeling techniques to enhance existing UniSim Design models.

The course is made up of a series of hands-on workshops using examples from the natural gas processing industry, although the skills learnt can be applied to any model. Each workshop is preceded by an Instructor-guided discussion and demonstration.

COURSE DELIVERY OPTIONS

- Instructor-Led Training (ILT)
- Virtual Instructor-Led Training (VILT)

COURSE OBJECTIVES

- Getting Started
 - Build a Turbo Expander steady state model to use as a basis for the rest of the course
- Extensions
 - Learn how to register Extension Unit Ops for use within the model
- Advanced Columns
 - Modify the column sub flow sheet and use the tray sizing utility
- Templates and Sub-Flow sheets
 - Using sub-flow sheets to organize the model, ways to create templates and sub-flow sheets
- Spreadsheets and Case Studies
 - Introduction to spreadsheets and case studies
- Advanced Recycle Operations
 - Advanced topics – backwards propagation, interaction of Recycle block with Adjust operation
- Troubleshooting
 - Learn steady state troubleshooting techniques
 - Use of Simulation Balance Tool
- Depressuring
 - Introduction to Dynamic Depressuring utility
- Compressor & Pump curves
 - Adding curves to pump & compressor unit operations in steady state
- Reactions
 - Introduction to reactions in UniSim Design
- Rating Heat Exchangers
 - Use of rating mode in the Heat Exchanger
- Automation Introduction
 - Introduction to using OLE Automation with UniSim Design. Controlling a model from Excel using VBA and creation of User Variables