

Training Schedule

Day 1

v1.1

0900	Introduction About Perceptive Engineering Objectives of this course
0930	Software Overview Real Time and Development Software Versions Projects: What is a project? Creating a new project Loading an existing project Project Workflow Fundamentals: Screens, Explorer Bar Status Bar, Signals Data Channels
1000	Data Import / Export / Trending Opening Existing Data Files Plots Data Table, Pasting Data into The Data Table Saving Data Files Case Study
1200	Lunch
1300	PharmaMV for PAT Applications Project Workflow Hierarchy of building blocks for PAT applications PharmaMV: Soft Sensors Simulator Operator Advisor Batch Control Closed Loop systems using Analysers Integration with third party systems
1430	Data Analysis and Data Pre-Processing Analysis Range Data Selector, Bad Data Detection and Replacement, Outlier Removal Data Processing Operations Case Study
1600	Data Visualisation Scatter Plots Distribution Plots Process Capability Charts Shewhart EWMA and CUSUM Charts Correlation Analysis Power Spectrum Parallel Co-ordinates
1700	Questions and Answers Day 1

© Perceptive Engineering Limited 2011

PerceptiveAPC, ControlMV, ArchitectMV, PharmaMV, MonitorMV are registered trademarks of Perceptive Engineering Limited.

All other brand or product names may be trademarks of their respective holders.

Training Schedule Day 2

0900	Process Modelling Using PCA Analysis Blocks and Models Block Types Multiple Models Data Requirements for PCA Modelling Model Configuration How many Scores? Loadings - explained Model Validation The Model Record Case Study
1030	Dynamic Process Modelling Using PLS/RLS Data requirements for Dynamic Modelling Overview of Technologies ARX / FIR structures Delay spreads Model order Absolute vs Incremental Causes and effects Modelling using RLS Modelling using PLS Coefficients Model Validation Tips for Soft sensor development Case Study
1200	Lunch
1300	Batch Data Analysis Differences between continuous and batch data 'Unfolding' batch data Batch Data Modelling Case Study
1430	Spectral Data Analysis Integrated Data Management Pre-processing Spectral Data Visualising Batch, Discrete and Spectral Data Real-Time Connectivity Case Study
1530	Optional: a) Introduction to Control Engineering Facilities b) Parallel Co-ordinates c) Customer Data analysis
1700	Course Finishes

© Perceptive Engineering Limited 2011

PerceptiveAPC, ControlMV, ArchitectMV, PharmaMV, MonitorMV are registered trademarks of Perceptive Engineering Limited.

All other brand or product names may be trademarks of their respective holders.