

PiProMaster

Industrial Process Control Training

π PiControl Solutions

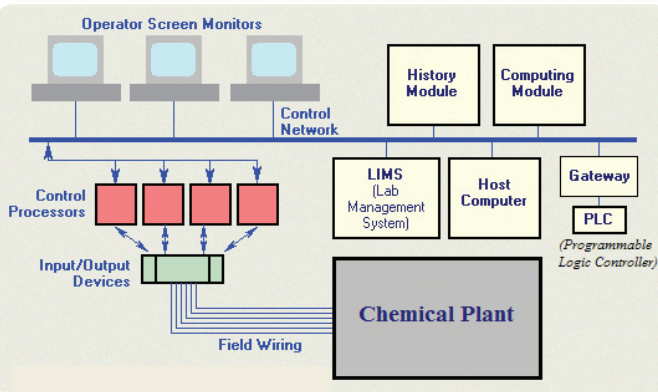
PiProMaster is Computer-Based Training (CBT) software on practical industrial process control designed specially for industry and college. Nowadays, modern chemical control rooms are complicated with all the DCS, PLC and Advanced Control software and hardware. There is a lot to know and learn to be a good practical industrial Control Engineer or Technician. PiProMaster teaches you the theory and practice of industrial process control using real plant data, simulations and calculations and with real industrial examples.

PiProMaster shows you how to:

- Tune PID's and troubleshoot problems
- Design a Lab-Corrected Inferential Model-Based Controller with Closed-Loop Control
- Design a Feedforward Controller based on accurate process dynamics
- Determine Transfer Functions from Closed-Loop or Open-Loop data
- Design Constraint Override Selectors
- Implement Production Rate Maximizers
- Activate controllers correctly in the right sequence for safe startup
- Design and implement many other schemes

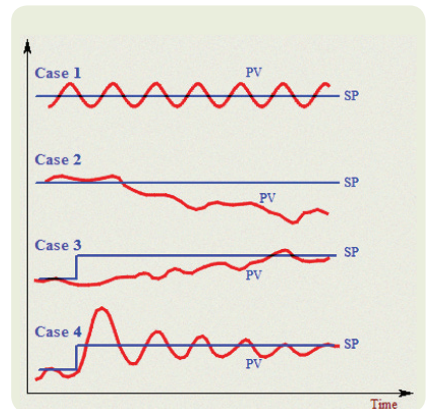
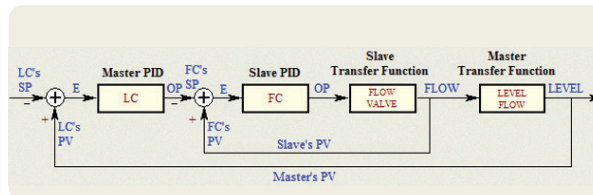
PiControl's CBT trains you on these and other concepts designed specially for the practical control room. The CBT converts any Control Engineer or Technician into a skilled, seasoned process control expert in a remarkably short time of about a week.

The CBT has been developed by practicing control engineers with over 150 years of control room experience. Chemical Plants, Oil Refineries, Schools/Colleges, Process Control Designers & Practitioners will benefit from this Training.



The CBT has three parts:

- Interactive Theory Lessons
- Quizzes with Online Grading
- Hands-on Lab Sessions on Process Control Simulator



6. Override Control Strategies

Maximization of Production Rates

A very popular use of constraint override control strategies is in the design of production rate maximizing control strategies. These strategies can be very simple, yet can increase a plant's bottom-line profit margin anywhere from \$250,000 to as high as \$3,000,000 per year for typical commercial sized chemical plants.

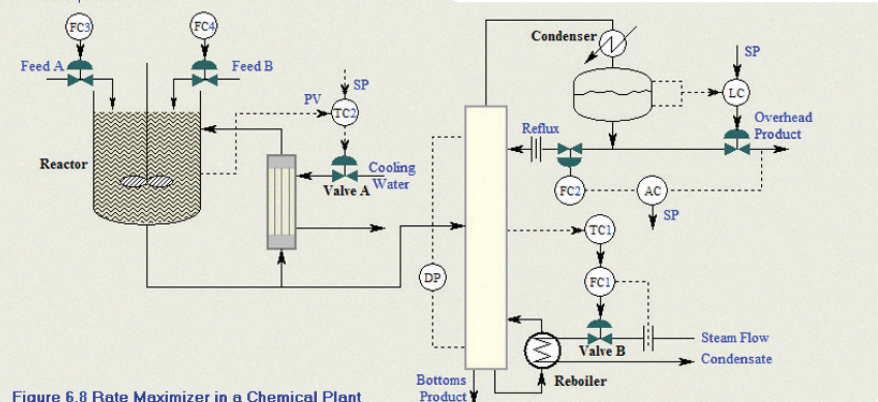


Figure 6.8 Rate Maximizer in a Chemical Plant

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