

How to tackle Distillation Control using On Target Solutions!

- ◆ **Discovery Phase** includes field surveys, plant tests, operator interviews, and collection of historical process data.
 - **Define the problem:**
 - column configuration
 - operating constraints
 - control objectives
 - disturbances
- ◆ **Analysis Phase** includes data evaluation, benchmark development, constraint identification, and definition of process characteristics.
 - **Determine the basic design philosophy:**
 - degrees of freedom, manipulated variables
 - measurements that indicate status of the control objectives
 - how operating constraints will be honored
 - disturbances that will be included as feed-forward variables
- ◆ **Design Phase** includes strategy design, configuration definitions, operator display requirements, and functional documents used for design approval.
 - **Beginning with the basic design, develop a control strategy that will:**
 - handle all control objectives
 - honor all operating constraints
 - shed all measurable disturbances
 - reduce or ameliorate control interactions
- ◆ **Implementation Phase** includes strategy configuration, loop tuning, and operator training to successfully commission the **On Target Solutions!**
 - **Perform detailed engineering to configure, install & commission control strategies:**
 - control strategy programming
 - train staff
 - initialize and tune new strategies
 - confirm operation in automatic

And don't forget the project follow up phases!

- ◆ **Post Audit Phase** includes delivery of as-built documentation and collection of process data for comparison to benchmark.
- ◆ **Sustained Performance** includes optional project follow up at regular intervals to audit strategy performance, to provide strategy maintenance and recurrent operator training.

The **challenge** is not simply to develop a strategy that meets the design requirements, but to develop a strategy that **effectively accomplishes** the design requirements.

