



simulation
knowledge
profit

ITOP

Inprocess' Training for Operators

ITOP is Inprocess' approach to operators and young engineers education in subjects like Process Engineering and Unit Operations. This approach combines process simulation-based exercises with classroom training, motivating attendees to experience complex theory subjects through hands-on exercises.

Through ITOP the operators gain better process understanding, leading to increased plant reliability and improvement in overall operator performance, as well as improved ability to operate the plants in a safe way.

ITOP can be adapted to be aligned to support the company's existing training strategy.

ITOP proves to the authorities the investment in operators knowledge to operate safely.

ITOP includes:

ITOP Software

Flexible software environment based on standard simulation tools with prepared dynamic process models and a Human Machine Interface (HMI), adapted to specific client's needs, allowing as well for web-based access.

ITOP Documentation

The ITOP documentation covers presentations of the theoretical content and exercise manuals. It can be customised in agreement with the customer.

Optionally, Training Activity

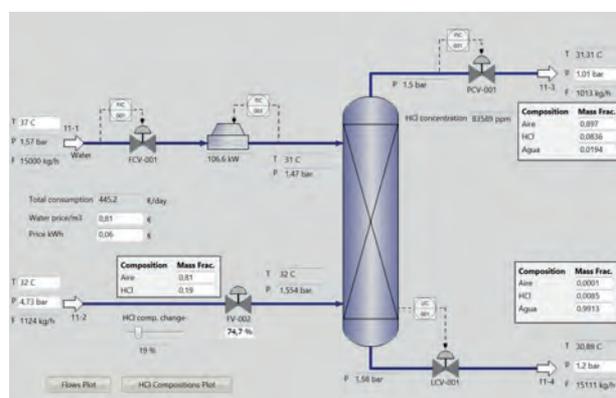
When required, Inprocess can provide local training instructors in a number of countries. The training content and schedule can be adjusted to specific customer needs.

ITOP Exercise Example:

Absorption Column

Absorption Column exercise includes the analysis of the impact of changes in:

- Absorbent flowrate
- Column top pressure
- Column bottoms level
- Gas feed composition
- Feed streams temperatures



ITOP Exercises are available for the following subjects:

- Centrifugal Pump
- Centrifugal Compressor
- Reciprocant Compressor
- Shell & Tube Heat Exch.
- Air Cooler
- 2 liquid phases separation
- Liquid-Liquid extraction
- Absorption Column
- Distillation Column
- CSTR with single reaction
- CSTR with multiple reactions
- PFR with multiple reactions
- Process Control Loops

Inprocess has also been developing additional exercises based on customer specific requirements.

BASF's Head of Production at its Tarragona chemical complex, Joan Carles Olucha:

"Inprocess has played a major role in contributing to our vision of the Tarragona site being one of the best chemical sites in the south European region. Selecting Inprocess as the training content developer and training deliverer was a proof of our trust in their robust technology and reliable know-how."

