

A yellow chevron symbol pointing to the right.

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 (either presential or virtual), 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 can be installed in local training networks, in wide area networks or in the cloud (private or public)

ITOP can be purchased, can be **leased**, or can be accessed as a Service (**SaaS**).

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, accessible from local computers as well from remote web browsers.

ITOP Documentation

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

Optionally, Training Activities

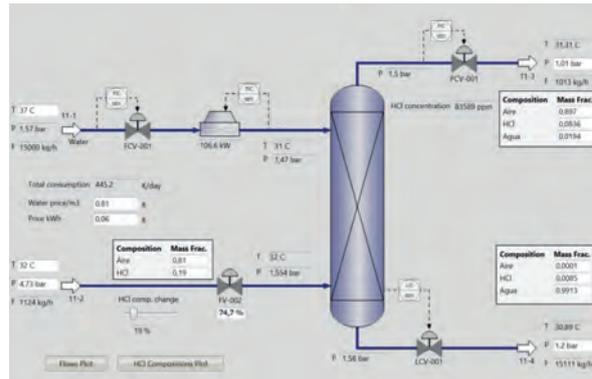
When required, Inprocess can provide local training instructors in a number of countries. The training content and schedule can be adjusted to specific customer needs.

ITOP Module Example:

Absorption Column

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

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



ITOP Modules are available for the following equipment:

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

Inprocess has also been developing additional, more complex modules, based on customer specific requirements.

BASF's Head of Production at its Tarragona chemical complex (2009):

"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."

