

Pumps and Compressors

SIM-PAC



This interactive 2-day course combines elements of high fidelity, generic process simulators as well as a student-driven learning model centered around the INSTO (TM) Methodology. PetroSkills Simulation Solutions 2-Day Courses teach operators how to build a mental model of various processes and stress critical thinking skills for operators that can be brought back to the control room.

In this course each trainee will have access to their own generic simulators including Centrifugal Pumps, Centrifugal Compressor (Fundamental) and Centrifugal Compressor w/ Utilities (Intermediate).

Trainees will have an opportunity to startup each piece of equipment as well as spend time troubleshooting common pump and compressor malfunctions. Operations that promote both safety as well as optimization are stressed throughout the course. The material of the course is applicable to refineries, petrochemical sites, chemical plants, and any other facilities that operate pumps and compressors.

LEVEL- Foundation

DESIGNED FOR

This training course is useful for Console Operators, Outside Operators, Console Supervisors, and Young Engineers that work with pumps and compressors.

YOU WILL LEARN HOW TO

- Operate the Centrifugal Pump as an Outside Operator.
- Operate the Centrifugal Pump as a Console Operator.
- Predict the results to Normal Operating conditions for Flow and Temperature changes.
- Troubleshoot common upsets and failures.
- Conduct safe and successful Centrifugal Pump startups and shutdowns.
- Operate a split-range pressure control system.
- Maintain discharge pressure to protect the pump internals from overheating and seizing