



## Plant Utilities - SIM-PLU

### COURSE

#### About the Course

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™ Methodology. 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 Cooling Water Tower, Steam Boiler (Fundamental), and Gas Fired Steam Boiler (Intermediate). Trainees will have an opportunity to startup each piece of equipment as well as spend time troubleshooting common malfunctions related to the cooling water systems and boilers. Operations that promote both safety as well as optimization are stressed throughout the course. The material of the course is applicable to refineries, chemical sites, petrochemical sites, and any other facilities that operate cooling water towers and boilers.

#### Target Audience

Console Operators, Outside Operators, Console Supervisors, and Young Engineers that work with cooling water towers and boilers

#### You Will Learn

##### COOLING WATER TOWER

- Operate the Cooling Water Tower as an Outside Operator
- Operate the Cooling Water Tower as a Console Operator
- Troubleshoot common upsets and failures
- Conduct safe and successful Cooling Water Tower startups and shutdowns

##### STEAM BOILER

- Improving knowledge of fundamental engineering and operating principles
- Understanding of basic unit operations
- Increasing operator confidence levels
- Improving basic operational skills

##### GAS FIRED STEAM BOILER

- Operate the Gas Fired Steam Boiler as a Console Operator
- Improving knowledge of fundamental engineering and operating principles
- Understanding of basic unit operations
- Increased operator confidence levels
- Improved basic operational skills

## Course Content

- Startup
- Troubleshooting
- Safety operations
- Optimization operations

Through simulators for:

- Cooling Water Tower
- Steam Boiler
- Gas Fired Steam Boiler

## Product Details

Categories: [Downstream](#)

Disciplines: [Refining](#) [Operations & Maintenance](#)

Levels: [Foundation](#)

Product Type: [Course](#)

Formats Available: [In-Classroom](#)

Instructors: [Donald Glaser](#) [Matthew Garvey](#)