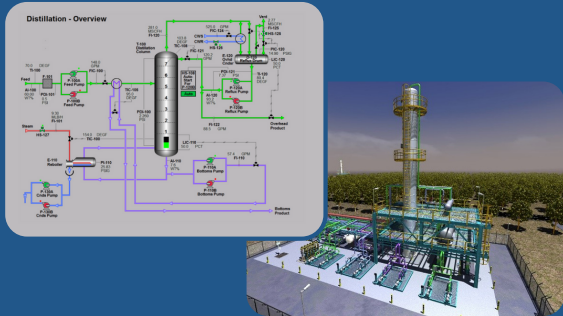


SIMULATOR SOFTWARE AND COURSE MATERIAL

1. Process Simulators

Each trainee will be provided with their own simulator modules for the duration of the course. Simulators are brought by instructors for on-site courses and installed ahead of time on trainee PC for virtual courses.



2. Course Exercise Booklets

Every trainee will be provided with their own comprehensive Course Exercise Booklet (CEB) specifically made for each course. These exercise booklets include the complete INSTO™ methodology for each module. Trainees will write in their booklets, and are encouraged to keep them.

3. Flip Charts

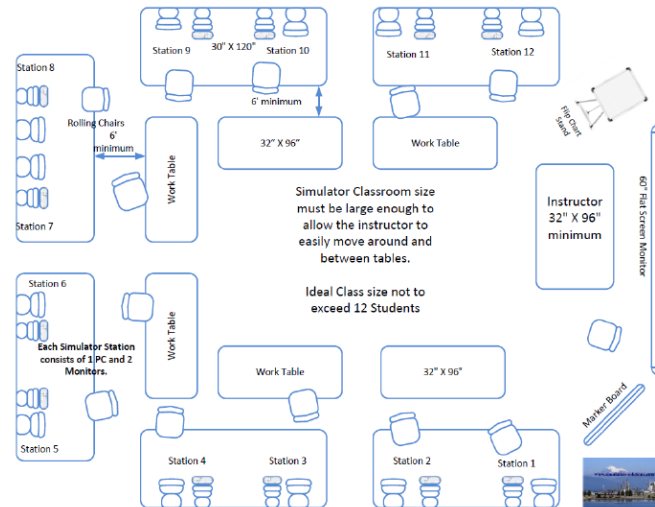
Trainees share their answers on a flip chart in the front of the class to encourage group discussion and an active learning environment. Virtual “polling” is used for virtual course.

4. Operator Self-Assessment Forms

After completing the course, trainees complete a 30 item self-assessment on various operator competencies. Assessments allow operators and supervisors to identify strengths and weaknesses including a comparison to an industry average.

COURSE FEES, COMPUTERS AND FACILITIES

- Course fees available upon request.
- Class size: 12 - 14 Trainees.
- Simulator software is provided for duration of class.
- Courses can also be conducted on-site as well as virtually. For on-site courses a recommended room set-up is included below.
- Regardless of format, each trainee must have access to a computer or laptop with a dual monitor setup.



Suggested Room Layout for on-site Course

Contact Us



732-688-8689



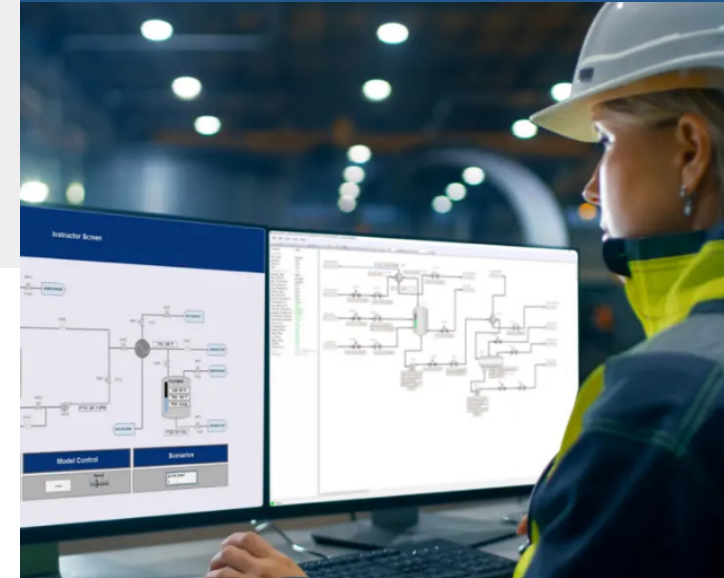
simulationsolutions@petroskills.com



www.petroskills.com



2-DAY TROUBLESHOOTING SKILLS TRAINING COURSES



“IMPROVING TROUBLESHOOTING AND CRITICAL THINKING SKILLS OF CONSOLE AND OUTSIDE OPERATORS THROUGH A PROVEN COMBINATION OF CLASSROOM AND SIMULATOR BASED TRAINING EXERCISES.”

NOW INTRODUCING VIRTUAL TROUBLESHOOTING COURSES

If preferred, course can now be delivered in a completely virtual format. Each trainee will need access to the following:

- A windows-based PC where the software will be installed ahead of training.
- A headset with microphone due to the high level of interactivity of the virtual course.
- A dual monitor set-up. One monitor for the software and the second monitor to access a virtual conference where trainee answers will be logged.

COURSE INSTRUCTOR

Donald Glaser
Vice President
B.S. Chemical Engineering
Simulation Solutions, Inc.
Lafayette College

- 40+ years of international OTS experience
- Published authors and presenters
- Personally conducted dozens of OTS courses
- Developed 5 step INSTO™ methodology

COURSE OVERVIEW

2-Day courses allow operators to improve their skills using generic training simulators. Simulation Solutions uses a unique blend of DCS simulation, a virtual reality “outside operator”, and comprehensive course exercise booklets in order to help operators develop new Operating Mechanics as well as a new Operations Mindset™.

120+
Training
Courses
Conducted

1400+
Operators
Trained

1
Comprehensive
Training
Solution

WHO SHOULD ATTEND?

Console Operators
Field Operators
Early-career Process
Engineers

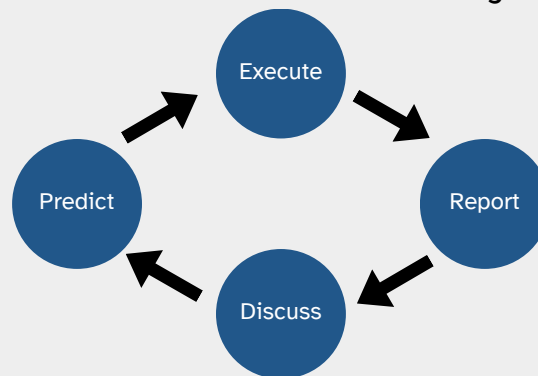
COURSE CATEGORIES

Refining & Petrochemical
Fired Heater Operations
Plant Utilities
Pumps & Compressors
Batch Operations
Power Plant Ops. A & B

COURSE FOCUS

Using an innovative approach to both Classroom and Simulator Exercises, the courses focus on improving Operator Safety, Critical Thinking Skills, Competency and Hands-On skills in Operating and Troubleshooting. Each course focuses on fundamental, yet comprehensive, individual and team exercises which promote trainee-driven learning. These exercises in the Course Exercise Booklets follow our INSTOTM methodology and use a Minds-On/Hands-On Training™ Strategy. This allows Trainees to maximize their training investment.

“Minds-On/Hands-On” Training™



At the end of each course, trainees complete a course survey, which acts as feedback to help with future course improvement. In addition, trainees complete a self-assessment to identify operator strengths and weaknesses. For comparative purposes, supervisors are also asked to assess their operators’ skills.

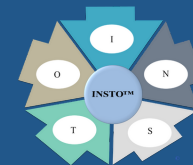
OPERATOR OBSERVATIONS

- “The troubleshooting and critical thinking skills that I learned from this course will help me in running my own unit.”
- “The most useful course I have ever attended on site.”
- “Pitched perfectly for new and experienced panel operators.”

WHAT YOU WILL LEARN – INSTO™ APPROACH

Identification:

Learn how to come onto a new plant and figure out what’s there and how it is connected using P&IDs, the plant itself, and the controls.



Normal Operations:

Understand how the plant runs under normal conditions and learn/develop a sense of “expected results” when making operational moves on a plant.

Start-Up and Shut-Down:

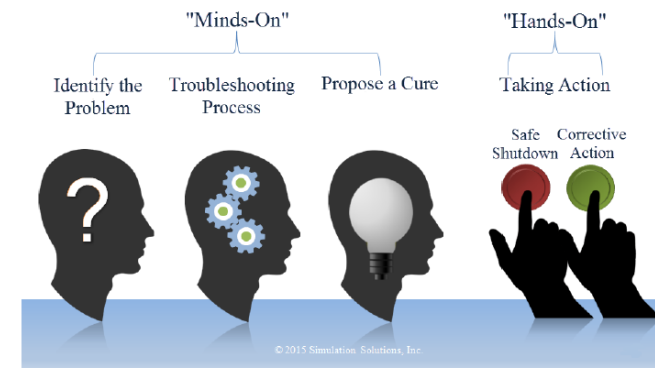
Follow detailed and time critical procedures for start-up and shutdown, starting with a sense of the proper order and important safety issues.

Troubleshooting and Upsets:

Learn to approach plant problems/upsets and troubleshoot them in a systematic way. Learn how to implement safe solutions and/or call for an emergency shut-down.

Optimization and Operating Strategies:

Learn the safe limits of operation given the current set of equipment, controls, feedstock, etc. in order to maximize productivity/profits.



Troubleshooting Strategy