



PSR

PERFORMANCE | SAFETY | RELIABILITY

PSR INTERACTIVE



EQUIPMENT 07 - OPERATIONS

This program contains 6 modules, comprizing alternating segments of learning and practice using PSR Interactive and dynamic process models of basic unit operations, ie:

- Heat Exchanger
- Flash Tank
- Centrifugal Pump
- Two-Tower Distillation System

The dynamic process models are licensed through our alliance partner, [Trident Computer Resources Inc](#)

This program has a number of preprogrammed automatic training exercises that the user can run and practice as many times as they feel necessary in a zero-risk environment to develop their capability, competence and confidence

It is assessed using Trainee Performance Monitors whereby trainees are assigned a score based on the magnitude and duration for which selected process variables exceed prescribed limits. With practice, trainees see their automatic trainee performance monitor scores gradually improve

'Equipment - Operations' is designed to help your production personnel develop the capability, competence and confidence to:

- make capacity & quality control adjustments
- respond to equipment faults and failures
- secure and restart equipment in an emergency
- startup from cold conditions
- shutdown to cold conditions

CONTENT	DESCRIPTION
Introduction	A brief introduction designed to prepare trainees for the modules that follow
Part 1 - Heat Exchanger Model & Flash Tank Model	User familiarization - selecting the process model and the distributed control system, activating the alarm summary, activating the graphic displays, selecting initial conditions and running the model, accessing process variable displays, activating trainee performance monitors and automatic training exercises, changing a controller setpoint, loop status and output, silencing and acknowledging alarms

PROGRAM INFO

CATEGORY:
Equipment

MODULES:
6

PROGRAM DURATION:
135-225 mins, plus time allowed for process model exercises

As with all our programs, the content is self-paced. Users are able to validate their understanding of the material through embedded interactive quizzes and automatic trainee performance monitors

Our programs are based on international best practices and this program is designed to consolidate concepts learned in the preceding Distillation, Heat Transfer, Mechanical, Pipework, Relief & Blowdown and Instrumentation & Control programs

For further details of the style and methodology of our training programs, please refer to our website, where you can watch a demo video and apply for a free trial:

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CONTENT	DESCRIPTION
Part 2a - Heat Exchanger Model & Flash Tank Model	Alternating learn and practice segments - observing the response of automatic controllers to step changes and disturbances, replicating the same response in manual control, making the correct response to faults and outages, starting up from cold conditions
Part 2b - Flash Tank Model & Centrifugal Pump Model	Alternating learn and practice segments - making the correct response to faults, outages and emergencies, starting up from cold conditions
Part 3a - Two Tower Distillation Model	Alternating learn and practice segments - adjusting and changing the loop status of cascade controllers, adjusting split range control systems, resetting automatic trip systems
Part 3b - Two Tower Distillation Model	Alternating learn and practice segments - making the correct response to faults, outages and emergencies
Part 3c - Two Tower Distillation Model	Alternating learn and practice segments - making the correct response to pump seal failures, power failures and overheads system disturbances, starting up from cold conditions
Trainee Performance Monitor	Trainees are assigned a score based on the magnitude and duration for which selected process variables exceed prescribed limits. With practice, trainees see their automatic trainee performance monitor scores gradually improve