

PipelineTrainer®

As global energy pipelines grow in numbers, length, diameter, pressure and complexity, the need for ongoing, real-world training and certification for pipeline operators increases.

Companies driven to improve their Health, Safety and Environment (HSE) performance are finding that a rigorous, well-defined, and ongoing training program can significantly reduce human error and related incident rates in any area of their operations.

This is especially true when it comes to pipeline operators who are monitoring and controlling real-world functions from remote locations using computer technology.

Remote Automation Solutions

THE ULTIMATE SOLUTION FOR:

- Real-world, pipeline-specific training and automation
- Custom scenario and “what-if” response training
- Group or one-on-one pipeline operator training
- Risk mitigation related to operator error
- Management and stakeholder training assurance
- Flexible, high-level regulatory compliance

BENEFITS:

- Powerful and flexible
- Fully customizable
- Can be configured and tuned for any pipeline, both liquids and gas
- Uses actual configurations and data for realistic operation modelling and system responses
- Establishes an industry-leading platform for pipeline training and/or certification

PipelineTrainer

Precision Pipeline Simulations Built on Market-Leading Technology and Expertise

Pipeline simulation systems have been available for many years, but they have been viewed by the industry as too costly and too far removed from the real-world, daily operations of their existing pipelines to adequately train and evaluate their current and future pipeline operators on them.

Emerson has taken a very different approach to this challenge. When we build a pipeline simulation system using PipelineTrainer, we do it in a way that accurately maps the real-world operations of that pipeline down to the smallest details. We are able to do this because we have not only the industry-leading tools for pipeline design and pipeline modeling and management, but we have the expertise to configure and tune a simulation to accurately model the real pipeline network under virtually any operational scenario. For example, what happens if a specific valve opens or closes? What happens when a pump goes out? Or, if there is a product leak — even a small one — at any point in the line, what will the key indicators be, even if it is below the alarm threshold?

Capabilities

Once configured, operators can then use PipelineTrainer to run a wide variety of simulations — from normal operating conditions, to leak or theft detection scenarios, compression modelling and optimization, slack line conditions, line pack, pigging operations, routine or emergency shutdowns and much more.

The simulations are realistic and fully configurable so both operators and trainers can quickly and confidently learn, without the risk of an error creating real-world hazards. Once installed, your training professionals can be taught how to build and configure new scenarios, tune the system, and manage the PipelineTrainer solution for the benefit of your company.

PipelineTrainer can be used to help your organization with:

- Ensuring more consistent compliance to operational procedures
- Meeting changing regulatory requirements for ongoing training and/or certification with verifiable reports that training has been conducted
- Training new and existing pipeline operators on both routine and unexpected changes to minimize operational risk
- Reducing the chance of costly errors and accidents related to operator knowledge and experience
- Providing demonstrated training procedures and processes to interested stakeholders including employees, executive management, shareholders, insurance companies and Right-Of-Way (ROW) land holders
- Providing an industry-developing platform for internally developed training and certification programs managed by your company to reduce risk



Global Headquarters
North America and Latin America
Emerson Process Management
Remote Automation Solutions
6005 Rogerdale Road
Houston, TX, USA 77072
T +1 281 879 2699
F +1 281 988 4445

www.EmersonProcess.com/Remote



Europe
Emerson Process Management
Remote Automation Solutions
Unit 8, Waterfront Business Park
Dudley Road, Brierley Hill
Dudley, UK DY5 1LX
T +44 1384 487200
F +44 1384 487258



Middle East and Africa
Emerson Process Management
Remote Automation Solutions
Emerson FZE
PO Box 17033
Jebel Ali Free Zone - South 2
Dubai, UAE
T +971 4 8118100
F +1 281 988 4445



Asia Pacific
Emerson Process Management
Remote Automation Solutions
1 Pandan Crescent
Singapore 128461
T +65 6777 8211
F +65 6777 0947

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