

simulation  
software limited



**varisim**<sup>TM</sup>  
Training Simulation

# Training Simulation

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**varisim™** helps you model and manage every component of a pipeline system with complete accuracy.

**varisim™** provides an unprecedented level of control for liquid and gas systems of any size, including Flow Assurance studies, Pipeline Management, Leak Detection, Optimisation, Monitoring and Training Simulation.

**varisim™** Training Simulation can significantly advance an operator's experience and reduce undesirable operating events.

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**Every pipeline operating company can benefit in real, tangible terms from the use of an accurate and realistic training simulator. Following the lead of the aviation industry, an increasing number of companies are using simulators to demonstrate their commitment to pipeline safety.**

Simulators that can not simulate the complete behaviour of the pipelines, its equipment and the control scheme (including SCADA logic) are severely limited in their ability to provide a meaningful training environment. With the **varisim™** simulator at its core, Simulation Software Limited can supply one of the most realistic and advanced training environments on the market today.

**varisim™** training simulators train operators to deal with a wide variety of frequent and infrequent events that could be experienced on the real pipeline. They help significantly advance your operator's experience that could otherwise take months or even years to obtain. Indeed, your operator can be exposed and trained to deal with unwanted hazardous events and even learn to prevent them occurring in the first instance.

## Benefits provided by the training simulator:

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- Rapidly advance an operators experience in dealing with everyday normal pipeline operation
- Learn to use the SCADA system and associated real time applications
- Replay actual pipeline events
- Learn to operate safely and effectively within design limits
- Train operators to recognise and deal with hazardous pipeline operations including pipeline leaks
- Demonstrate the effects of misuse and learn to trouble shoot with confidence
- Demonstrate and verify start-up and shutdown procedures
- Practice pig (scraper) tracking operations.

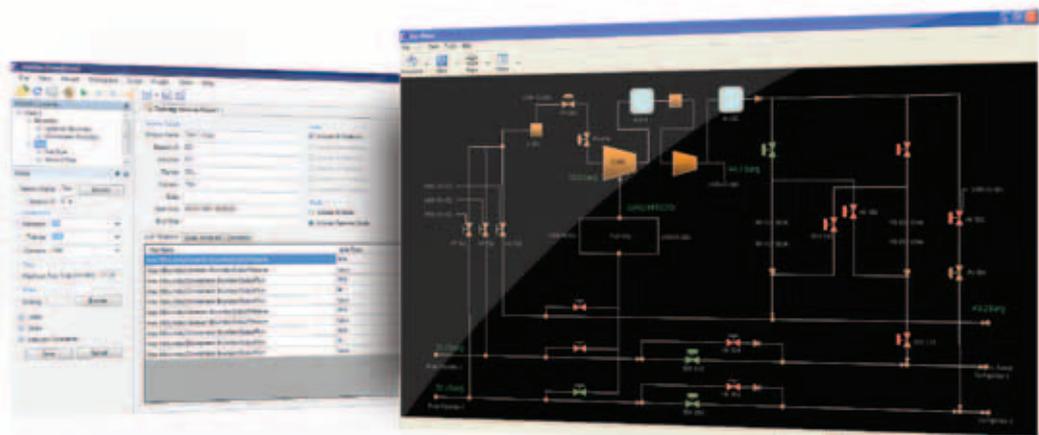
These typical requirements can be included within a comprehensive training program with each trainee having an individual set of training metrics to work towards. Automated assessment allows definition of training goals in measurable terms against which the trainees' performance is continually assessed.

## 100% authentic interface

The training simulator is provided in two main formats. It can be supplied as a desk based simulator operated through its standard graphical user interface supplemented with an instructors interface for creating scenarios and initiating assessment criteria. This approach allows operators and users to analyse and understand a pipelines reaction to their equipment and control scheme operation. Alternatively, the simulator can be operated through a replicated (or copy of) SCADA front end so that the operator can control the simulation through the same environment used to control the real pipeline. The simulators output provides the feedback that would be obtained from the telemetry system.

varisim™ also offers comprehensive applications for:

- Pipeline Management
- Leak Detection
- Optimisation
- Flow Assurance and Surge Analysis
- Monitoring Functions



## Exceptional customer support

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As a globally significant supplier of pipeline management solutions, we supply quality, robust, repeatable software. Alongside these exceptional products you can expect the customer service you need to get the best from our software at all times, stay up to date with innovation and excellence, and maximise the return on your investment.

## Simulation Software Limited

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**varisim™** has been developed by Simulation Software Ltd. As part of the Hydraulic Analysis Group, SSL is dedicated to the development and supply of modern high performance pipeline simulators and pipeline management software.

We employ technical specialists and industry experts with a wealth of background experience in running, installing and developing advanced simulator and pipeline management applications. This ensures that every delivery performs to its maximum capability delivered by staff who really do know their industry.



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