EnVision
e-Learning & Universal Simulation

Pumps - Tutorial

A self-paced MultiMedia based Tutorial/CBT on Pumps

Tutorial/CBT:

This interactive tutorial provides an Overview, Operating Principles, Lubrication and Mechanical Seal details for Centrifugal and Positive Displacement Pumps using Voice, Video, Animation and Graphics.

Overview
- Introduction
- Pump Types
- Seals and Lubrication

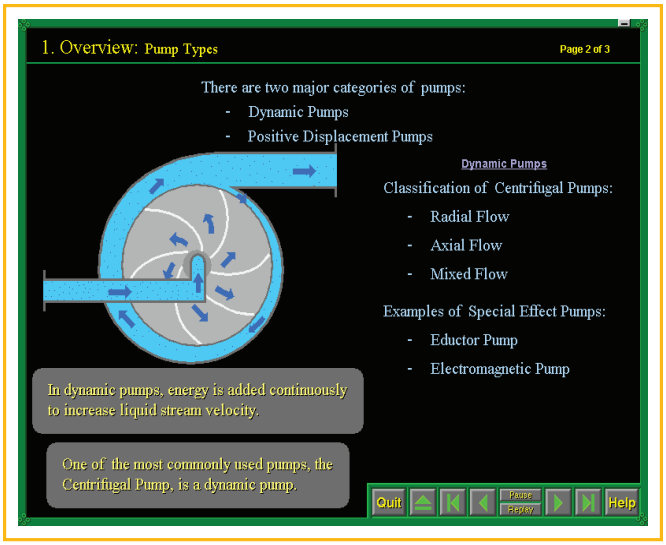
Centrifugal Pumps
- Introduction
- Pump Components
- Impellers
- Piping System
- Drivers and Couplings
- Variations of Centrifugal Pumps
- Centrifugal Pump Performance

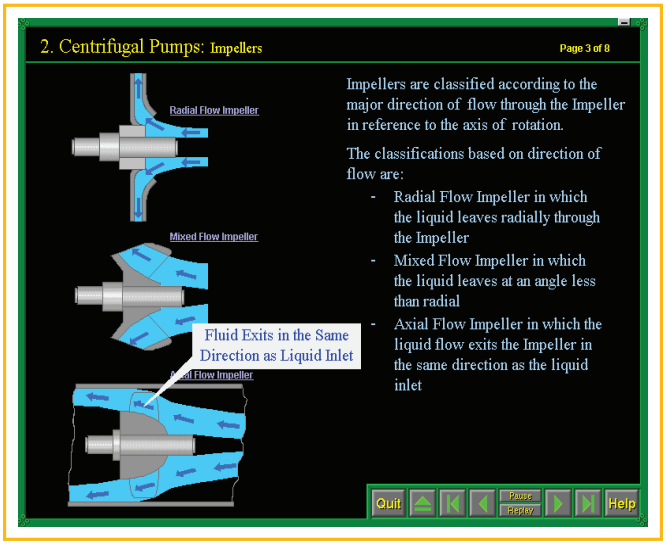
Operation of Centrifugal Pumps
- Introduction
- Cavitation
- Internal Recirculation
- Minimum Flow Control System
- Priming
- Starting and Stopping Procedures
- Spare Pump Operation
- Routine Maintenance
- Troubleshooting

Operation of Positive Displacement Pumps
- Overview
- Pump Operation
- Routine Maintenance
- Troubleshooting

Positive Displacement Pumps
- Overview
- Reciprocating Piston Pump
- Reciprocating Plunger Pump
- Reciprocating Diaphragm Pump
- Gear Pump
- Lobe Pump
- Vane Pump
- Positive Displacement Pump Piping System
- Applications of Positive Displacement Pumps

Pump Lubrication
- Introduction
- Lubrication Fundamentals
- Methods of Lubrication
- Quantity of Lubrication
- Quality of Lubrication
- Lubrication Management
- General Recommendations





Pump Mechanical Seals
- Introduction
- Seal Leakage
- Dynamic Secondary Seals
- Static Secondary Seals
- Materials of Secondary Seals
- Seal Covers
- Construction of Mechanical Seals
- Mechanical Seal Piping Plans

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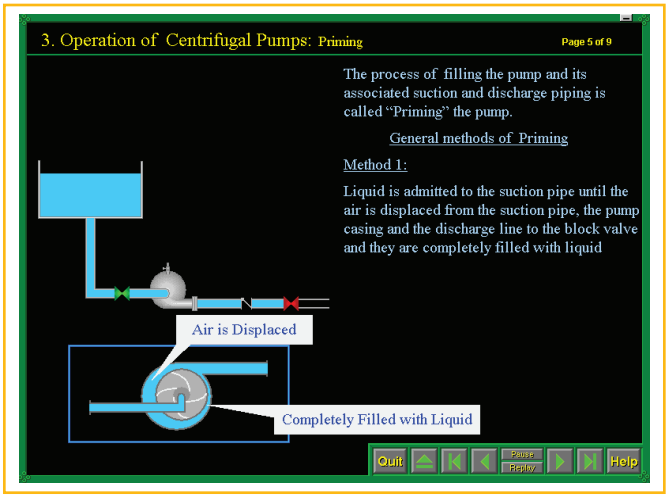

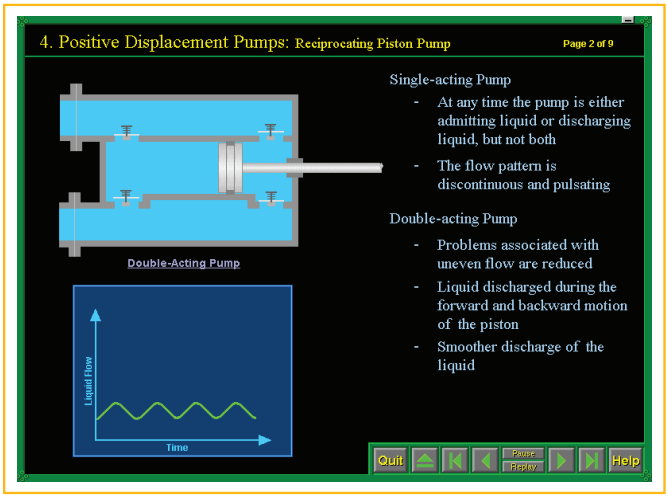

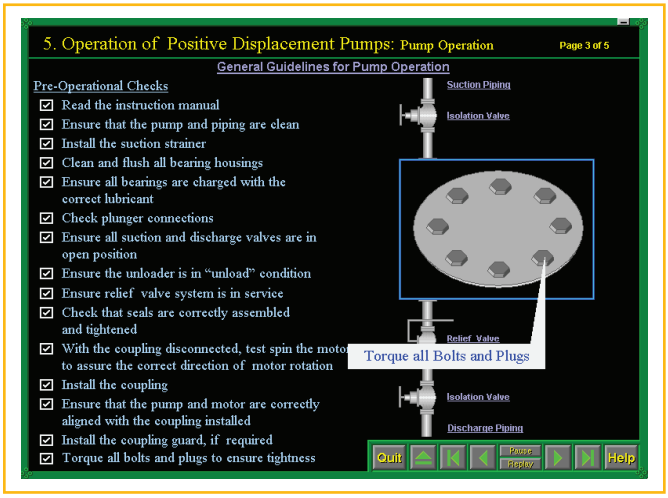

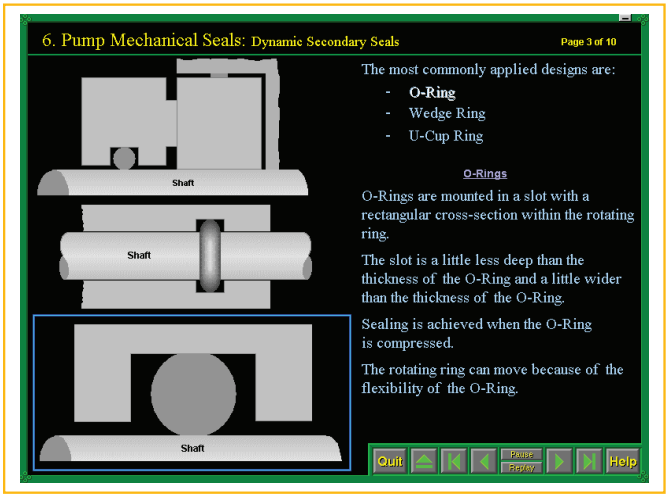

- Tutorial has a built-in Quiz and comes with a Learning Management System (LMS) called TutAdmin. The LMS allows an instructor to register trainees and monitor their performance and Quiz scores
- Tutorial is available as a Standalone or Web based application
- Available in English, Chinese, Danish, Dutch, French, German, Spanish and Swedish

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info@gses.com | www.gses.com