EnVision
e-Learning & Universal Simulation

Instrumentation Tutorial

A self-paced multimedia based Tutorial/CBT on Instrumentation.

Tutorial/CBT:

This interactive course explains the fundamental concepts of Instrumentation used in industry using voice, video, animation and graphics.

Overview
- Introduction
- Process Control

Pressure Measuring Instruments
- Introduction
- Liquid Column Elements
- Elastic Element Gauge
- Electrical Pressures Transducers

Temperature Measuring Instruments
- Introduction
- Contact Temperature Sensors
- Non-contact Temperature Sensors

Flow Measuring Instruments
- Introduction
- Differential Pressure Flow Meters
- Variable-Area Flow Meters
- Positive Displacement Flow Meters
- Velocity Flow Meters
- Mass Flow Meters
- Open channel Flow Meters

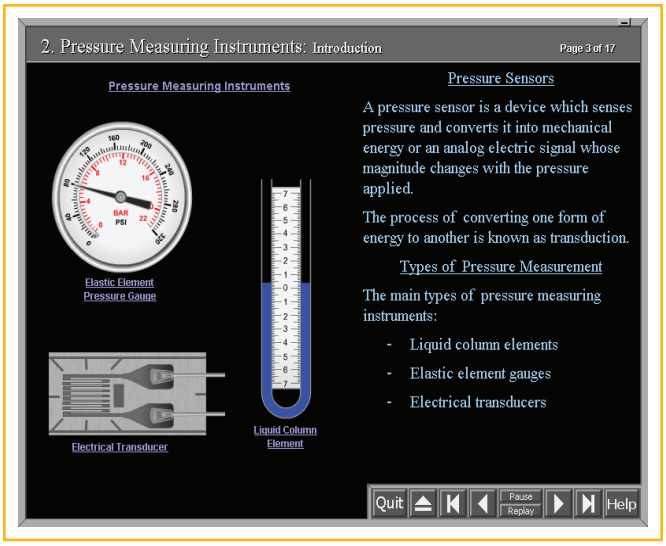
Level Measuring Instruments
- Introduction
- Direct Measuring Methods
- Indirect Measuring Methods

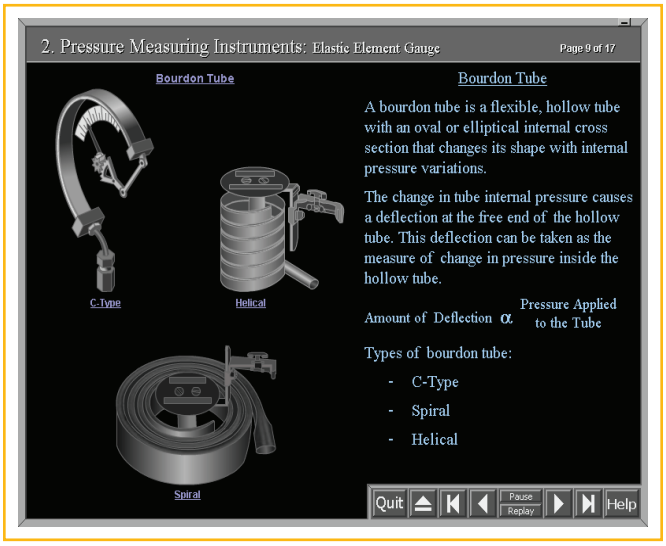
Analyzers
- Introduction
- Gas Analyzers
- Liquid Analyzers
- Humidity Analyzers
- Solid Moisture Analyzers
- Electrochemical Analyzers
- Composition Analyzers

Final Control Elements
- Introduction
- Valves
- Actuators and Positioners
- Regulators and Dampers
- Variable Speed Drives

Transmission and Communication
- Introduction
- Transmission
- Switches, Relays and Annunciators
- Digital Communication
- Industrial Networks
- Wireless Networks

Process Monitoring and Control Systems
- Introduction
- Programmable Logic Controllers (PLC)
- Distributed Control Systems (DCS)





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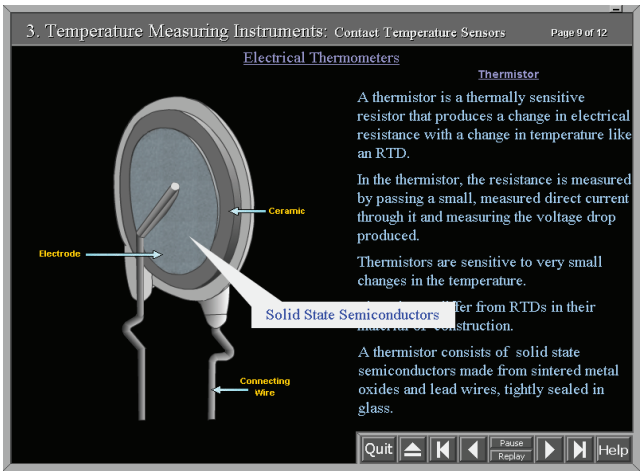

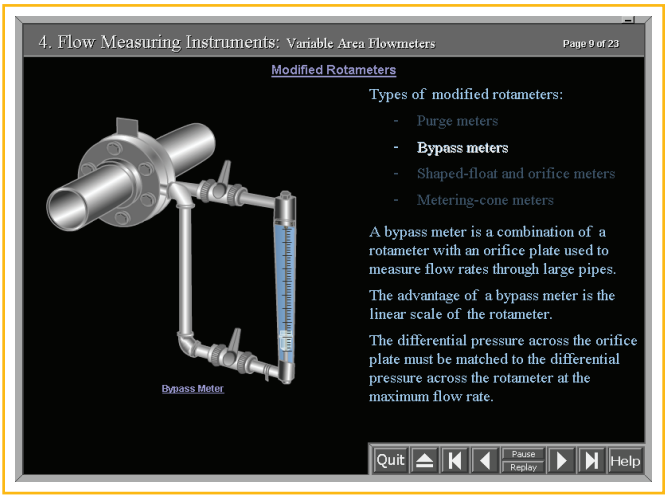

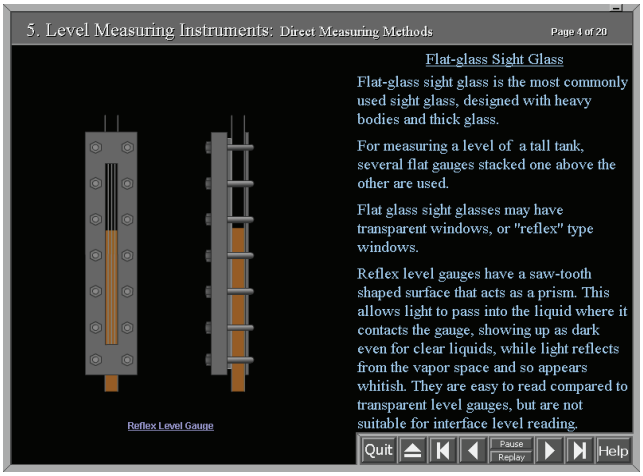

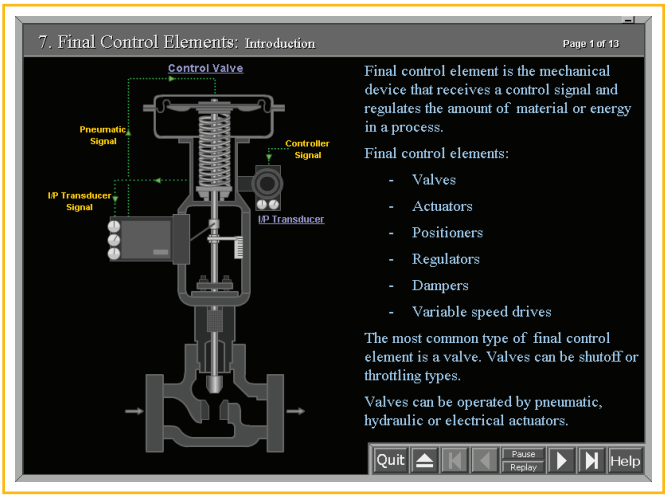

- Tutorial has a built-in Quiz and comes with a Learning Management System (LMS) called TutAdmin. The LMS allows an instructor to register trainees and monitor their performance and Quiz scores
- Tutorial is available as a Standalone or Web based application

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