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)
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.