Basic Process Control Tutorial


Tutorial/CBT:

This interactive course explains the Fundamentals of Process Control and Dynamics using Voice, Video, Animation and Graphics.

**Introduction**
- Process Control
- Automatic Control
- Definitions
- Block Diagrams
- Open and Closed Loop System
- Feedback and Feedforward Control

**Process Dynamics**
- Introduction
- Input Changes
- Process Representation
- First Order System
- Higher Order System
- Process Identification
- Sensor and Control Valve Dynamics

**On-Off Controller**
- Introduction

**Cascade Control**
- Introduction
- Operations
- Initialization

**Ratio Control**
- Introduction

**Tuning of Controllers**
- Introduction
- Ultimate Method
- Reaction Curve Method
- Minimum Error Integral Methods
- Practical Considerations

**PID Controller**
- Introduction
- Proportional
- Integral
- Derivative
- PID Controller
- Industrial PID Controller
- Direct and Reverse Action

**Distributed Control System**
- Introduction
- I/O Module
- Control Module
- Computer Module / Interface
- Operator Station

GSE Systems
www.gses.com/EnVision
• 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.