

Automatic control HVAC systems (TEAPKW02)

Objectives

Basic knowledge of automatic control engineering:

Analyze HVAC plants

Assess the degree of difficulty of controlled systems

Identify control problems

Make suggestions of improvements, if necessary

Appropriately plan and adjust control equipment according to application

This e-learning module will help you to:

Develop an intuitive understanding of control loop response

Explain the action of closed-loop control processes in HVAC-systems

Select and commission control equipment for further HVAC applications

Target Group

We have created this self learning program for employees of SBT. It provides the basic knowledge of automatic control engineering required for activities in:

Sales

Project Engineer

Commissioning

Service

Content

The purpose of heating, ventilation and air conditioning (HVAC) is to provide a comfortable indoor environment in which occupants can feel at home. In order to achieve it, HVAC systems are provided with control equipment. As a specialist for control equipment, you need appropriate basic knowledge of automatic control engineering.

Content and series of topics:

Why automatic control?

Introduction to open and closed loop control

Steady-state response of a system

Dynamics of single element systems

P-controller

Control loop

PI-controller

Dynamics of multi element systems

PID-controller

Type

E-Learning

Duration

10 hours

Language

en

Fee

2,550 SEK