

# ROXBYP



Training Solutions

## Control Valves, Actuators and Positioners

## **Course Content**

### **Aim**

To provide the skills and knowledge of the operation, calibration and industrial application of process control valves used for the manipulation and control of the main process variables of pressure, level, flow and temperature.

### **Pre-requisites**

The course is ideally suited to those personnel who may require training as part of a multi-discipline engineering programme and who are required to carry out work with control valves on return to their workplace.

### **Course Duration**

The course is 5 days in duration.

### **Optimum Number**

A maximum of 6 delegates per course.

### **Course Language**

The course is delivered in English. Therefore candidates must have good standards of both written and verbal English.

Courses can be delivered in other languages however, this would need to be discussed prior to acceptance on the course. It is the responsibility of the person making the booking to make Roxby aware of this requirement.

### **Training Aids**

A Roxby Presentation using course hand outs. This is followed with practical training and assessments.

## Course Syllabus

<b>Control Valves (General)</b>	Introduction Control Valves Construction Control Valve Operation Control valve Action (Fail-Safe Operation)
<b>Control Valves (Detailed)</b>	Control Valve Actuators Diaphragm Actuators Other Actuators Piston Actuators Control Valve Bonnet and Gland Assemble Control Valve Bodies (Plugs and Seats) Control Valve Maintenance
<b>Control Valve Characteristics</b>	Control Valve Trims Flow Characteristics (Inherent and Installed) Trim Selection for Process Applications
<b>Control Valve Sizing</b>	Control Valve "Cv" Valve Rangeability Turndown Ratio Sizing Techniques
<b>Control Valve Problems</b>	Noise Cavitation Flashing
<b>Control Valve Positioners</b>	Introduction Motion Balance Positioners Force Balance Positioners Applications Split Range Operation Other Types of Positioner