



# CONTROL VALVE ENGINEERING SCHOOL

## SOUTHERN CONTROLS PTY. LTD.

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<b>DURATION:</b>	2 Days
<b>TIMES:</b>	9.00am to 4.30pm
<b>COST:</b>	\$980.00 + GST
<b>LOCATION:</b>	Southern Controls Training Room 50 Norcal Road NUNAWADING VIC 3131

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### **WHO SHOULD ATTEND THIS COURSE**

- \* Engineers who use or specify control valves.
- \* Maintenance personnel who repair or replace control valves.
- \* Purchasing personnel who buy control valves

In addition:

- \* Anyone who uses, specifies or repairs control valves would benefit from the increased knowledge and understanding of control valves that this course would provide.

### **COURSE CONTENT**

Topics covered include the following:

- \* Basic valve types and valve characteristics
- \* Guidelines for valve and actuator selection
- \* Introduction to the fundamentals of valve sizing
- \* Trim types, material and selection
- \* Noise sources and treatment (includes video program)
- \* Cavitation sources and treatment (includes video program)
- \* Detailed explanations and examples of liquid, gas and steam sizing and selection
- \* Principles of noise attenuation and cavitation treatment
- \* Material selection and trim types
- \* Actuator sizing, including force calculation and effects of stem friction
- \* Packing, types and application
- \* Applications of boosters and positioners

## **COURSE INCLUDES**

- \* Control valve engineering handbook
- \* Valve sizing and selection catalogue
- \* Actuator sizing and selection catalogue
- \* Lunch
- \* Course notes

## **SKILLS ACQUIRED DURING COURSE**

At the end of the 2-day course, participants will:

- \* Be able to identify the various valve types and be aware of their typical applications.
- \* Be aware of various control valve trim types and characteristics and be aware of their typical application.
- \* Be aware of the causes and be able to identify basic types of control valve damage caused by cavitation and flashing.
- \* Be able to perform basic valve sizing calculations for liquid, gas and steam services.
- \* Be aware of various actuator types and be able to perform sizing calculations for sliding stem actuators.
- \* Be aware of the function of valve positioners and boosters and their typical applications.