

## COURSE 1300: CONTROL VALVE ENGINEERING I

### **Overview:**

This course is for engineers and other persons responsible for the selection, sizing and application of control valves, actuators and positioners.

This 3 day course explains how to select the correct control valve, actuator and accessories to operate through the full range of process conditions. This course covers general applications and emphasizes the sizing and selection methods for a broad variety of control valves and actuators. Students will solve various sizing and selection problems using published materials and FirstVue software, plus participate in equipment demonstrations and workshops. Students who complete this course will be able to:

- Select the proper valve characteristic for a given process.
- Choose suitable styles of control valves for an application.
- Size control valves and actuators.
- Select the best actuator for all applications.
- Properly apply positioners.

### **Prerequisites:**

Some experience with industrial controls equipment including control valves and actuators would be helpful.

### **Topics:**

- Actuator Selection and Sizing.
- Cavitation.
- Control Valve Selection: Rotary and Sliding Stem.
- Corrosion Resistant Valves.
- Liquid Valve Sizing.
- Positioners and Transducers.
- Valve Application Guidelines.
- Valve Characteristics.
- Valve Packing Considerations.
- Valve Noise.
- Gas Valve Sizing.

### **Location:**

Auckland Branch: 16 Mahunga Drive  
Mangere Bridge  
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