WHAT YOU WILL LEARN

• Understand what happens inside a control valve from a basic fluid mechanics point of view
• Appreciate the difference between cavitation and flashing
• Understand the difference between controlled and choked flow
• Do simple calculations to determine CV values
• Recognise severe service applications and have an appreciation for the methods of tackling the problems associated with such applications
• Identify the different types of control valves commonly in use and understand the relative advantages of each
• Choose between different characteristics on offer
• Understand the advantages and disadvantages of different seat leakage rates
• Size actuators for linear and rotary applications and know the relative advantages of pneumatic, hydraulic and electric types
• Select materials for bodies, trims, packing boxes, and gaskets
• Use a computer sizing program to assist with the selection of control valves
• Understand the failure modes for control valves and demonstrate new approaches to trouble shooting

ENROL NOW: Fax the enrolment form to us, or email enquiries@eit.edu.au
PRESENTED BY

ROBERT SNAITH
HND (Mech.Eng)

With over 30 years of experience in fluid transport systems, Rob has done the hard yards. Commencing work immediately in Fluid System Applications Engineering after graduating, he expanded his focus in later years to the plant management of the manufacture of fluid sealing and transport equipment. In the past decade as a private consultant, he has worked extensively in designing and troubleshooting complex fluid transport systems and equipment.

When not working long hours on the design, commissioning and troubleshooting of pumps and pipelines, Rob squeezes some time in for his Harley Davidson motorbike and scuba diving expeditions. He has done many presentations and workshops throughout the world and was placed third in the world in an international pumps, "Train the Trainer" workshop in Boston, Massachusetts in 1998.

One of his passions and sources of enjoyment is in instructing technical courses. No matter whether you have very little knowledge or are a veritable guru; you will be sure to take away useful knowledge from his courses, which you can immediately apply to your business.

12 MODULES OVER 3 MONTHS

OVERVIEW:

Control valves are the workhorse of our facilities, continually functioning to ensure our systems work as intended. A properly specified, engineered, designed, installed, and maintained control valve can be one of the most profitable investments a facility can have, while a control valve that "does not work well" can be an increased risk of injury (more exposure of maintenance personnel working on the valve), and disruption to your system.

With today’s focus on data management, the control valve is the part of the control loop that not only requires integration with modern data collection methods, but also involves mechanical features (moving parts, exposure to process fluids, material selection issues) as well as occupational health and safety issues not associated with other parts of the control loop [such as noise]. Often the benefits of modern SCADA systems can be lost with inappropriate or minimal attention to the control valves.

This comprehensive certificate course covers the essentials of control valves and actuators. With this knowledge, the user is better placed to fully realize the full potential and benefit of any control system.

Selections of case studies are used to illustrate the key concepts with examples of real world working control valves. The course is aimed at those who want to get a solid appreciation of the fundamentals of their control valve design, installation and troubleshooting.

INCLUDES 4 FREE REFERENCE MANUALS

VALUED AT OVER US$400

YOU WILL RECEIVE 4 OF OUR UP-TO-DATE TECHNICAL E-BOOKS TO ADD TO YOUR LIBRARY.

- Practical Control Valve Sizing, Selection and Maintenance
- Practical Instrumentation for Automation and Process Control
- Practical Process Control
- Best Practice in Process, Electrical and Instrumentation Drawings and Documentation

Received upon completion.

All materials required for the course will be provided electronically, in smaller, easy-to-read sections.

Please Note: e-Books are available in hard copy at 50% of the recommended retail price. Contact us for pricing details.
PRACTICAL EXERCISES
Throughout the course you will participate in hands-on exercises using simulation software, which will help you put theory to practice immediately!

HARDWARE AND SOFTWARE REQUIREMENTS
All you need to participate is an adequate Internet connection, PC, speakers and a microphone. The software package and setup details will be sent to on the course commencement date.

ENTRANCE REQUIREMENTS
Some practical work experience in some of these topics would obviously be advantageous.

PRACTICAL EXERCISES
Throughout the course you will participate in hands-on exercises using simulation software, which will help you put theory to practice immediately!

CERTIFICATION
Participants completing all the assignments and achieving 60% or more for their final mark, as well as attending 65% of the live webinars, will receive the Engineering Institute of Technology Professional Certificate of Competency in Control Valve Sizing, Selection and Maintenance.

ON-SITE TRAINING
We can provide our training at the venue of your choice. On-site training can be customised and by bringing the trainer to site the dates can be set to suit you!

“The Customer is Always Right” – so tell us what you need and we will design a training solution at your own site.

For a FREE detailed proposal please contact Kevin Baker via e-mail: training@idc-online.com