

Control Valve – Selection, Service and Maintenance Course

Training Date: 25 – 29 February, 2024

Training Venue: Kuala Lumpur, Malaysia

Training Time: 8.30 am – 2.30 pm

Training Fee: USD4,500 per participant

COURSE OBJECTIVES

This course is designed to provide participants with the working knowledge on various of control valves, control valve sizing and its characteristics. The course covers procedures on how to conduct a regular inspection and maintenance of control valves. It consists of lectures and extensive practical exercises on control valve repair and calibration using the specific tools and testing equipment.

WHO SHOULD ATTEND?

Plant or process supervisors, team leaders, instrument engineers, lectures, and others who need to upgrade the knowledge and a comprehensive review or new experience of control valve technology.

TRAINING OUTCOMES?

At the end of the course, the participants should be able to:

- ⊕ Explain control valve terminologist.
- ⊕ Describe the following flow characteristics for valve type selection.
- ⊕ Describe the control valve parts.
- ⊕ Size a control valve for liquid, gas and steam service.
- ⊕ Repair and calibrate different types of control valves.
- ⊕ Describe the working principle of positioner and I/P converter.
- ⊕ Define the following terms;
 - ⊕ Direct/reverse acting actuator.
 - ⊕ Fail open, fail close, fail lock, fail hold and fail intermediate.
 - ⊕ I/P converter.
 - ⊕ Valve positioner.
 - ⊕ Valve booster.
- ⊕ Calibrate Smart Control Valve / Smart Positioner.

SELECTED CUSTOMERS

MALAKOFF
(24816-M)

HUNTSMAN
Enriching lives through innovation

**TENAGA
NASIONAL BERHAD**
(20886-W)

**BASF PETRONAS
CHEMICALS**

**PETRONAS
GAS**

ORYX GTL
QP - SABON Joint venture

GRACE
Enriching Lives, Everywhere.



ALSTOM



MALAYSIA LNG SDN. BHD.

**DOLPHIN
ENERGY**
دolphin
لطاقة

QAPCO
شركة قطر للاستكشاف والتنمية
QATAR PETROCHEMICAL COMPANY



**UNIVERSITI
TEKNOLOGI
PETRONAS**

COURSE PROGRAM

- ⊕ Overview of control valve and their parts.
- ⊕ Types of control valve
- ⊕ Valve terminologist and specification.
- ⊕ Control valve characteristics
- ⊕ Seat leakage classifications.
- ⊕ Control Valve applications.
- ⊕ Materials consideration
- ⊕ Control valve sizing
- ⊕ Actuators, types, selection and application.
- ⊕ Control valve accessories.
- ⊕ Assembling and disassembling of control valve
- ⊕ Control valve leak test using test rig equipment.
- ⊕ Operation of Smart Positioner



About the Course Instructor

Engr. Azahar bin Mat Noor, graduated with Bachelor of Engineering (Honors) in Electrical Engineering and major in control system from the University of Technology Malaysia and is both a Registered Professional Engineer (Mechanical) with Board of Engineer, Malaysia and a Member, The Institution of Engineers, Malaysia. He also holds an Instrumentation and Control System certificate from YEW Mitaka, Tokyo.

He had working experiences with several companies such as the Institute Technology Petroleum Petronas (INSTEP) and Centre for Instructor and Advanced Skill Training (CIAST).

Since the past 20 years in teaching, he had delivered for several courses such as;

- ⊕ Process Design and Process and Instrumentation for process engineer.
- ⊕ Process control technology for Instrument Engineer.
- ⊕ Process control technology and application.
- ⊕ Control valves service and repair.
- ⊕ Instrumentation and measurement Engineering.
- ⊕ Basic Instrumentation and Fundamental of Process Control.

CfPE TECHNOLOGY SOLUTIONS

Lot 1196, Jalan Mawar 8, Taman Permint Jaya, 21080 Chendering,
Kuala Terengganu, Terengganu, MALAYSIA.
Tel.: 006.019.979.0465 Fax: 006.09.617.8443
Website: www.cfpets.com Email: info@cfpets.com

Registration Form

Please Send Your Registration To:

Tel:	006.019.979.0465	Fax:	006.09.617.8443	E-mail	info@cfpets.com
------	------------------	------	-----------------	--------	-----------------

Course Details

Course Name:	Control Valve – Selection, Service and Maintenance Course	Course Date:	25 – 29 February, 2024
Venue:	Kuala Lumpur, Malaysia	Fee:	USD4,500.00

Company Information

Organization	
Address	

HR / Training Manager

Invoice to be sent to

Name :	
Tel no.:	
Fax no.:	
E-mail :	

Participant Information

Participant # 1

Participant # 2

Participant # 3

Full Name :			
Job Title :			
Department :			
Telephone No. :			
Mobile No. :			
Fax No. :			
E-mail Address :			

Please Pay by Telegraphic Transfer to:

Account Name :	CFPE TECHNOLOGY SOLUTIONS
Account No. :	563064120047
Bank Name :	Maybank Islamic Berhad
Branch Name & Address :	Malayan Banking Berhad – CPI, JALAN AIR JERNIH, KUALA TERENGGANU, TERENGGANU, MALAYSIA.
SwiftCode :	MBBEMYKL

CfPE TECHNOLOGY SOLUTIONS

Lot 1196, Jalan Mawar 8, Taman Permint Jaya, 21080 Chendering, Kuala Terengganu, Terengganu, MALAYSIA.
Tel.: 006.019.979.0465 Fax: 006.09.617.8443 Website: www.cfpets.com Email: info@cfpets.com