

Training Title

MAINTAIN PROCESS CONTROLLERS

Training Duration

5 Days

Training Date & Duration

REF RM050	Maintain Process Controllers	5	04-08 Nov 24	\$6,500	London
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Will be held at any of the 4 or 5-Star hotels. Exact venue will be informed once finalized.

Training Fees

US\$ 6,500 per participant includes Training Materials/Handouts, Tea/Coffee breaks, Refreshments and Lunch.

Training Certificate

Define Management Consultancy & Training Certificate of course completion will be issued to all attendees.

TRAINING OVERVIEW

TRAINING INTRODUCTION & DESCRIPTION

This course is designed to provide you with the necessary knowledge, skills to effectively Process Control Strategy. You will build your skills by using troubleshooting best practices and exchange experiences in order to work safely and efficiently in your area of operation.

The course covers Process Control Strategy in all industrial applications and you are familiar with Process Control main components and applications in Oil & Gas industry. You will gain experience troubleshooting by maintaining connectivity to field applications.

TRAINING OBJECTIVES www.definettraining.com

At the end of this course, the Trainee will be able to:

Have considerable knowledge of the Process Control System typically found in industry. Comprehensive course notes are provided.

WHO SHOULD ATTEND

- Instrument and Control Staff “Joiner Engineer, Supervisor, Technician.”
- Operation Staff “Control Room & Local Operator”

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- Mechanical Maintenance Staff.
- Individuals who are responsible for installation, maintaining and troubleshooting existing Control System.

TRAINING METHODOLOGY:

A highly interactive combination of lectures and discussion sessions will be managed to maximize the amount and quality of information and knowledge transfer. The sessions will start by raising the most relevant questions, and motivate everybody find the right answers. You will also be encouraged to raise your own questions and to share in the development of the right answers using your own analysis and experiences. Tests of multiple-choice type will be made available on daily basis to examine the effectiveness of delivering the course. Very useful Course Materials will be given.

- 30% Lectures
- 30% Workshops and work presentation
- 20% Group Work & Practical Exercises
- 20% Videos & General Discussions

DAILY COURSE OUTLINE

The course content will include the following will be covered in 5 days of time.

Principles of feedback control

1. Basic feedback control principles. .
2. On/Off Control
3. Proportional-only control
4. Proportional-only offset
5. Integral (reset) control
6. Derivative (rate) control
7. Summary of PID control terms
 - 7.1 Proportional control mode (P)
 - 7.2 Integral control mode (I)
 - 7.3 Derivative control mode (D)
8. P, I, and D responses graphed & Applications in process measurement (Pressure, Level, Flow, Temperature & Analyzer)
9. Hazards or risks associated with the maintenance of this system.
10. Process control strategies
 1. Explain the hazards or risks associated with the maintenance of this system.
 2. Test equipment and procedures to determine faults on the controllers or control loop.
 3. Smart Plant Instrument P&ID Drawing
 4. Cascade control & Ratio control.
 5. Feedforward control.
 6. Limit, Selector, and Override controls.

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NOTE:

Pre & Post Tests will be conducted

Case Studies, Group Exercises, Group Discussions, Last Day Review & Assessments will be carried out.



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