

INSTRUMENT OPERATION, SELECTION, CALIBRATION AND INSTALLATION COURSE

Training Dates:	As per schedule	Training Venue:	Kuala Lumpur
Basic Fee:	RM4,600.00 + SST per participant (this includes course materials, meals, refreshment and attendance certificate)		

DURATION

28 hours (Four (4) days)

TARGET GROUP

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 advanced process control.

TARGETED INDUSTRY / INDUSTRIES

Oil and gas industries, power plant, petrochemical plant, pump oil plant, food industries and others related industries.

CERTIFICATION

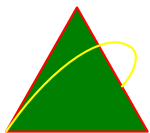
This course can be certified for the continuing professional development program likes the program by the board of engineers Malaysia, TEVT, Malaysia skill certificate and instrumentation competency certificate.

COURSE OVERVIEW

The course exposes participants to the various process control loop and their characteristics, proper modes selection and configuration. The course also cover usage of enhanced PID control system and multivariable loop. Participants will be taught on PID Tuning and the technique to upgrade the strategy of control technology to enhance the application of process control on distillation column.

COURSE OBJECTIVE

The objective of the program is to provide instrument engineers, plant tech, plant operators and others plant personnel with a good knowledge and skill so that they can optimum operating plant.



COURSE OUTCOMES

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

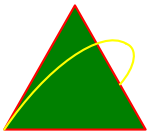
- Operate instrumentation elements.
- Convert units.
- Identify all instrument used in the industries.
- Calculate the URV and LRV.
- Calibrate all types of transmitters.
- Select the best choice of instrument.
- Install the Instrument.
- Troubleshoot for any symptom.

TRAINING METHODOLOGY

- Lecture
- Classroom discussions
- Short video presentation
- Hands on exercise.
- Case study

COURSE CONTENTS

- Introduction to basic instrumentation.
- Process measurement (pressure, level, flow, temperature, and etc)
- Selection of instrument.
- Calculation for LRV and URV.
- Wet calibration and Dry calibration.
- Instrument installation.
- Troubleshooting on any symptom.



ABOUT THE 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. He is 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.