

Introduction



This course provides a fundamental understanding of the instrumentation and process control systems and equipment typically used in oil & gas production facilities, refineries, and petrochemical plants.

Participants will then learn the principles and implementation of plant safeguarding and process safety instrumentation and systems. The course also highlights typical instrumentation and control loop maintenance, calibration, and equipment repair examples. Design, specification, field examples will be used to enhance the learning experience of the participants so they are able to understand and troubleshoot instrumentation and control systems better.

Program Designed For

Instrument and control technicians and engineers with a minimum of 2 years experience in maintenance and project engineering.

Duration

3 Days

Minimum Pax

6 Pax



Your Instructor

Henry Shim Khi Yung



Day 1	Day 2	Day 3
Introduction to Process Measurement <ul style="list-style-type: none">• Flow measurement• Pressure measurement• Level measurement• Temperature measurement• Control Valve Types• Body Construction• Actuators• Cavitation / Flashing	Duty of Controllers <ul style="list-style-type: none">• Single Control Loops• Multiple Control Loops• Master/Slave Control (Cascade)• Ratio Control• Split Range Control• Override (Selective) Control	Instrumented Safeguarding <ul style="list-style-type: none">• Safeguarding Policy• Safeguarding Philosophy: Primary and secondary protection• Instrumented Protective Functions