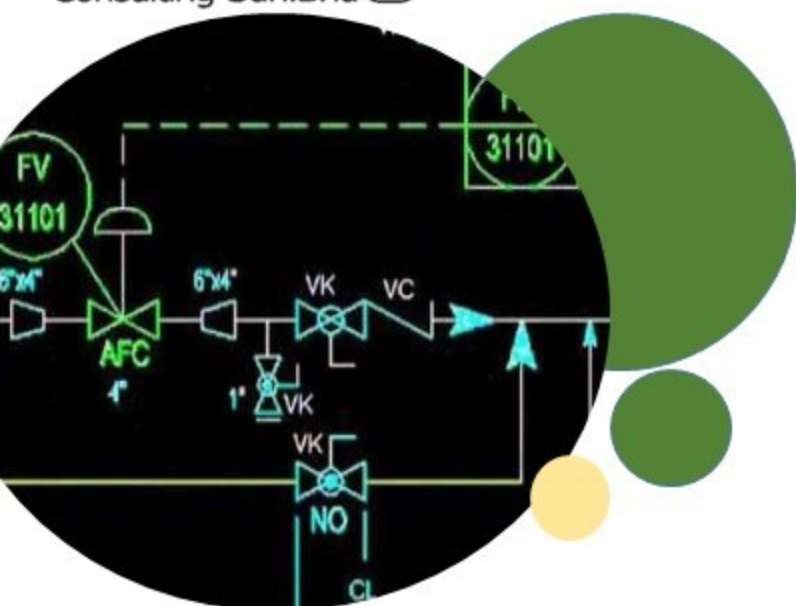


# Industrial Piping and Instrumentation Diagrams

(HOW TO READ P&ID?)



## COURSE CONTENT

- A block diagram
- Process Flow Diagram (PFD)
- Piping and Instrument Diagram (P&ID)
- The ISA Standard for symbolism, including:
  - ✓ How to look at Instrument Tag numbers
  - ✓ How to use the ISA S5.1 table
  - ✓ The standards for line symbols
  - ✓ The different kinds of instrumentation symbols and legends used
  - ✓ Process components, including pressure, temperature, level and flow
  - ✓ Valve body symbols
  - ✓ Actuator symbols
  - ✓ Dampers/Louvers
  - ✓ Miscellaneous symbols
  - ✓ Control loops and their functions

## LOCATION

Kuala Lumpur, Malaysia

## DURATION

1 Day

## ABOUT THIS COURSE

This course, developed out of best practice recommendations and extensive industry experience, provides you with fundamental knowledge required to read, apply and generate P&ID used in any Industry.

In the process industry, technicians use P&ID drawings as a more detailed strategy for mapping out the flow of a process in a control system. Piping and instrumentation diagram symbols are universally understood with a standardized system of symbolism required by the ISA. This is why it is of the utmost importance that you understand and utilize P&ID symbols

## OBJECTIVE

Upon completion of this course, participant should be able to:

- Understand the symbol of instrument
- Understand ISA S5.1
- Identify the process flow diagram (PFD)
- Understand the line designation
- Use the instrument and control symbols
- Interpret simplified diagram
- Know the implementation of P&ID

## Target group

New Entrants: People with a technical, production, science, logistics or quality background who wish to work in construction, manufacturing and engineering industries.

Current Employees: Those currently in related industries and who want to upgrade their skills and improve their employability.



Think Plus Academy Sdn Bhd  
A-7-1, Ativo Plaza,  
Bandar Sri Damansara,  
Kuala Lumpur.

Tel : +603 – 6280 4985  
Fax: +603 – 6280 4960  
E-mail: [training@thinkplusacademy.com](mailto:training@thinkplusacademy.com)  
Website: [www.thinkplus-academy.com](http://www.thinkplus-academy.com)