



**INDUSTRIAL PROCESS CONTROL - I N P C**

**COURSE DESCRIPTION**

This five-day programme is designed to provide participants with the basic knowledge of process characteristics and process control systems.

**COURSE OBJECTIVE**

At the end of the course, participants will have a good understanding of process characteristics and process control systems.

**COURSE OUTLINE**

- Theory
  - Principle of operation of gas chromatography
  - Concept of process gain, dead time and time constant
  - Manual-auto-cascade operation
  - Meaning of SV, PV and MV
  - Effects of P, I and D
  - Explanation and description of boiler drum and heat-exchanger pilot plant
  - Familiarization with the start-up procedures of the pilot plant
  - Concept of feedback, feedforward and cascade control
  - Controller tuning methods
  - Discussion on the operation of the heat exchanger
  - Fault simulation and trouble-shooting
  
- Practical
  - Familiarization with YS170 controller, determining process characteristics using process simulator
  - Flow control, discussion
  - Tuning methods using process simulator, 1-element level control, 2-element level control, 3-element level control, discussion
  - Temperature control, discussion
  - Integrated plant operation

**FOR WHOM**

For engineers and technicians who want to learn the principles of process measurement and control.

**PRE-REQUISITES**

None.

**COURSE LEADER**

The course leader is a Yokogawa-certified trainer in process measurement and control appreciation.

**CERTIFICATE**

The Certificate of Participation would be awarded to participants who have achieved 75% attendance for the course.

**COURSE INFORMATION**

Course Code	:	CT3002
Day / Time	:	Monday - Friday (9.00 am to 5.00 pm)
Duration (hours)	:	40 hours
Venue	:	Chemical Process Technology Centre 81 Jurong Island Highway Singapore 627837
Closing Date for Registration	:	One week before the course date

**COURSE ADMINISTRATION**

**Registration**

For registration, please complete and return the attached Registration Form together with the appropriate payment by cheque made payable to "Petrofac Training Pte Ltd".

**Enquiries**

Telephone: 6880 2000 Telefax: 6896 7151

Course Fee Subsidy/Payroll Subsidy  
Not Available Yet

