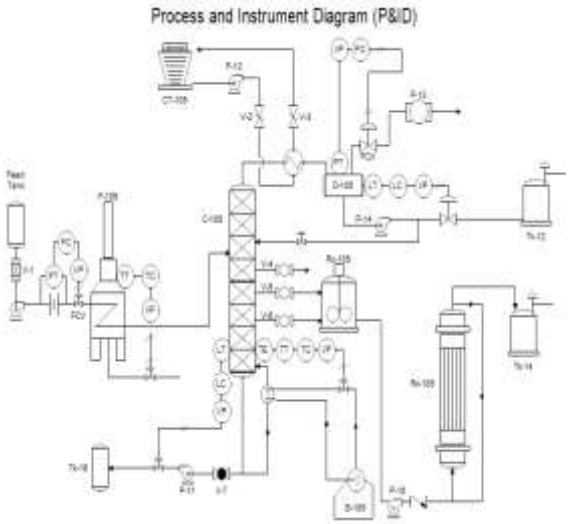
# eFunda Engineers and Afility Engineering Pvt. Ltd (AEPL)

**Training and Development Program for Instrumentation & Control Engineering**

## Code – AETD2: Design & Development – Instrumentation & Control Engineering

### Module -A : Introduction to Instrumentation & Control




A.1 Basic concepts in Instrumentation & control

A.2 Definitions & Overview of Flow, Level, Pressure & Temp

A.3 Primary Measurement

- Flow (F) Engineering guide
- Level (L) Engineering Guide
- Pressure (P) Engineering Guide
- Temperature (T) Engineering guide

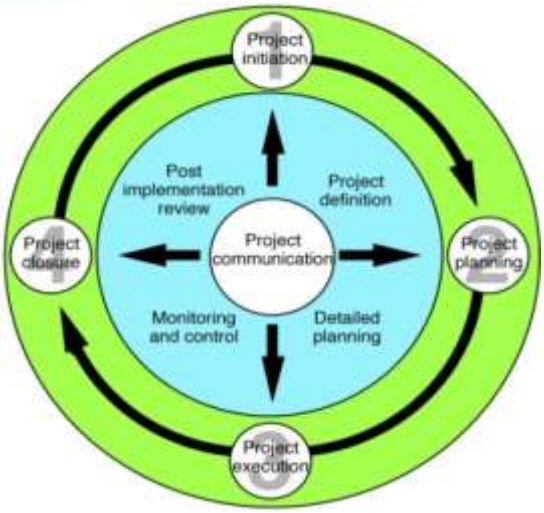
A.4 Secondary Measurement

A.5 Final Measurement (Final Control Elements)

A.6 Hazardous Area Classification (HAC)

A.7 Control System

- Programmable Logic Controller (PLC)
- Supervisory Control and Data Acquisition (SCADA)
- Distributed Control System (DCS)




### Module -B : Project Management

B.1 Introduction to Project Management

B.2 What is meant by Project Work? Project Life Cycle?

B.3 Feasibility Study

B.4 Concept of Design (CD) Engineering

B.5 Front End Design Engineering (FEED)

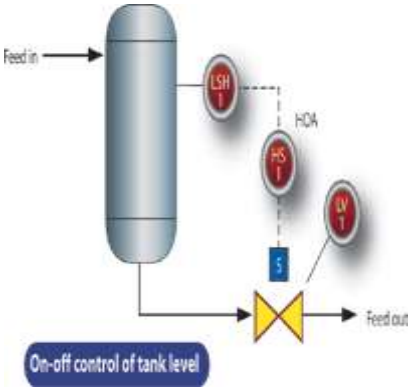
B.6 Detail Engineering - Instrumentation & Control

B.7 Design Deliverables - Instrumentation & Control

B.8 Detail Engineering - Sample Project

B.9 Lesson Learned

B.10 Project Closeout Report




### Module -C: Examples - Engineering Study and Case Study

C.1 Extended Training of Detail Engineering will be given on request.

C.2 Industrial Visits - Vendor Shops / Manufacturing Units (Offline Course only)