



Advanced Training & Certification Program

Process Design Engineering

Engineers 3D
Institute of Engineering Design

COURSE OUTLINE

Introduction to Process Plant Engineering

- ? Introduction
- ? Overview of an Engineering Organization
- ? Role of a Process Engineer
- ? Project Documentation

Basic Engineering Package:

- ? Overview of Basic Engineering Package.
- ? Basic design requirements based on the types of plants / projects.
- ? Introduction to PFD, P&ID and PDS, Equipment list, line list, Equipment data sheets
- ? Development of PFD, PFD specification,
- ? Development of P&ID,
- ? International Codes & Standards
- ? Fundamentals of Material Balance
- ? Fundamentals of Energy Balance
- ? Process Block Diagram

Process Simulation:

- ? Butane, LPC Column simulation
- ? Light Nephtha, CO2 Absorber
- ? Striper Design

Pipe Hydraulics & Line Sizing

- ? Flow rate, velocity, pipe sizing calculations
- ? Reynolds number- laminar/turbulent flow
- ? Darcy weisbach & hazen William equations
- ? pressure drop calculations, NPSH calculations

Equipments Used in Process Plants

Process equipment

- ? Reactors ? Towers
- ? Exchangers ? Furnaces
- ? Vessels ? columns

Mechanical equipment

- ? Pumps ? Compressors ? Storage tanks

Process Equipments Detail Design & Sizing:

- ? Heat Exchangers
- ? Pumps
- ? Pressure Vessel
- ? Seperation Column
- ? Control Valve,
- ? Reactor Technology

Course Details:

Eligibility: B.E./B.Tech./Diploma in Chemical Engineering

Course Duration: 45 Days Full Time (Weekdays) or 3 Months Weekend or 4.5 Months (only SUN)

Course Fees: Rs. 35,000/- (Rs. Thirty five thousand only inclusive all taxes and material

The due payment has to be cleared by course commencement date.

Training Features:

- Job Oriented Training Program based on current Industry Demands
- Live Project Based Training
- Providing all Training Material and technical Drawing, documents and case study materials.
- Expert and experienced Faculty for The Industry
- Training on Computer Aided drafting and Design S/W
- preparation for Interview and Mock Interview Sessions
- Guidance for Resume Preparation based on current requirement of Companies.
- Interview Opportunity to all Trainee for the placement.

Admission Procedure:

Please Visit Engineers 3D office, along with your Academic Certificate Cop, Submit Duly filled Admission Form, along with Registration Fee DD.



Documents Required:

- ? 2 PP Size Photograph.
- ? Photo ID Proof, Address Proof.
- ? Photo stat of qualifying exam certificate
- ? hard copy of your CV.

Declaration:

- This training program is on AUTONOMOUS basis conducted by Engineers 3D.
- Engineers 3D has right to expel any student at any time for misbehavior, poor attendance without refunding the fees.
- Certification will be issued only after completion of course, submission of all assignments and passing all the examinations.
- Engineers 3D has its own rules and regulations about conducting examinations and assessment of examinations

Engineers 3D

Email : wwwengineers3dcloud@gmail.com

Web : www.engineers3d.com

Hyderabad

**1st Floor, Plot No : 48, Gayathri Nagar, SAP Street,
Mythrivanam, Ameerpet, Hyderabad- 500 008**

Ph : +91-9177330109, +91- 9618699765