

Envision

Work together, Grow together



Foundation of Envision



Sunil Powar

B.E. Mechanical

Piping Layout Engineer

Working Experience

Worked abroad with JGC
Japan, Samsung Korea ,
Keppel FELS Singapore
12 years Industry Experience



Suyog Jadhav

B.E. Chemical

Piping Stress Engineer

Working Experience

Worked abroad with Samsung
Korea , Hyundai Korea, Chiyoda
Japan ,UHDE India , L & T
Chiyoda etc.
15 years Industry Experience.

Vision

“ To be a Pioneer Training provider in Engineering, Procurement, construction and management industry across the globe”

Mission

- ❖ To enhance learning skill through innovative teaching skill.
- ❖ Passionately committed for quality education.
- ❖ To promote ethical and value based learning.
- ❖ To contribute towards knowledge generation and dissemination.
- ❖ To enhance employability and contribute to human resource development.

Objective

- ❖ To enhance knowledge to understand the technical documents.
- ❖ To develop the ability to understand the engineering drawing.
- ❖ To introduce international codes and standards as well as good industrial practices.
- ❖ To develop the competency required for project design cost optimization.
- ❖ To develop ethics to do team work in EPC projects.
- ❖ To develop design concepts for safe design of plants.



Bridge between Industry and education to get quality people



Filtered students from 30 colleges



Trained manpower as per Industrial requirement



Ethical and Within budget
Ready manpower

Advantages to industry

What we do at Envision

- ✓ Share industrial lesson learnt.
- ✓ Teach comprehensive technical knowledge and as per company standard.
- ✓ Teach with the help of 3D animation.
- ✓ Clear the basics of codes and standard used industry.
- ✓ Ask to practice deliverables that has to do in industry.
- ✓ Encourage for teamwork.
- ✓ Doubt clearing session .

Milestone in education - Tie-up with Government College



शासकीय तंत्रनिकेतनमध्ये पाईपिंग डिझाईन अभ्यासक्रम

सकाळ वृत्तसेवा

कोल्हापूर, ता. १७ :
“पेट्रोकेमिकल, साखर कारखाने, औषधनिर्माण, अभियांत्रिकी क्षेत्रात तसेच सिंगापूर, आखाती देश, कोरिया येथे यंत्र, स्थापत्य अभियांत्रिकीच्या प्राप्त ज्ञानावरोवरच पाईपिंग डिझाईनचे विशेष ज्ञान असणाऱ्या मनुष्यवळाची आवश्यकता आहे. पदविका, पदवीचे ज्ञान देणाऱ्या अनेक संस्था आहेत; पण पाईपिंग डिझाईनकरीता स्वतंत्र अध्ययन करावे लागते.

हे अध्ययन एकाकी होऊ शकते. त्याचा दुहेरी लाभ होऊ शकत नाही. तत्पूर्वी, विविध अभ्यासक्रमाचे अभियांत्रिकी तंत्रज्ञान आत्मसात केलेल्यांना पाईपिंग डिझाईनचे ज्ञान घेण्याची इच्छा असून त्याला वंचित

राहावे लागते. अभियांत्रिकीच्या ज्ञानावरोवर पाईपिंग डिझाईनचे ज्ञान आत्मसात केले असेल तर सर्वांकडून प्राधान्य मिळू शकेल. याकरीता शासकीय तंत्रनिकेतनमध्ये पाइप डिझाईन हा अभ्यासक्रम सुरू करत आहेत”, अशी माहिती प्राचार्य प्रशांत पडुलवार यांनी दिली. या अभ्यासक्रमाच्या एनव्हिजन ट्रेनिंग संस्थेवरील सामंजस्य करार झाला. अभ्यासक्रम समन्वयक डॉ. राजेंद्र डोईफोडे यांनी प्रारंभिक केले. ते म्हणाले, “इलेक्ट्रॉनिक्समध्ये ज्याप्रमाणे सर्किटच्या रचनेवरून अभियंत्याला मार्गक्रमण करता येते, त्यापद्धतीचा अवलंब पाईपिंग डिझाईनमध्ये होत आहे.” प्राचार्य पडुलवार, यंत्र अभियांत्रिकी विभागप्रमुख प्रा. सुरेश विजें, एनव्हिजनतर्फे सुनील पोवार यांनी सामंजस्य करारावर स्वाक्षरी केल्या. प्रा. दीपक शिंदे, प्रा. डॉ. भारतभुषण कांबळे, प्रा. रेणुप्रसाद कुलकर्णी, प्रा. युवराज होवळे, प्रा. अमोल धांडे, प्रा. जे. डी. धोटे आदी उपस्थित होते. प्रा. वाळामाहेव पाटील यांनी आभार मानले.

Sakal - 18/4/16

Training based on advanced facility- 3D Animations



Training based on advanced facility- 3D Animations



Practical knowledge through Industrial Visit



Certificate distribution at SIT, Yadrav & Sanjevan College Panhala



Glance through syllabus

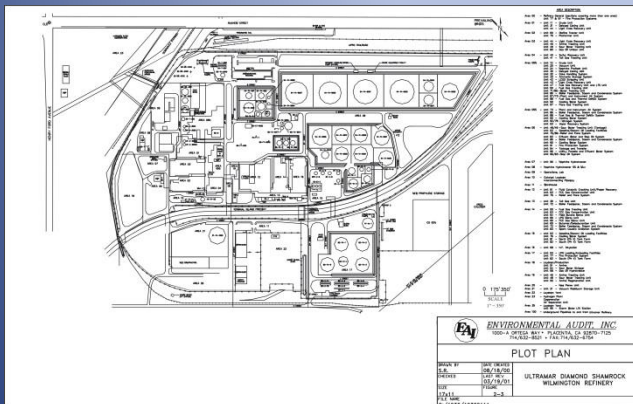
1. Preparation of plot plan

- Which shows the buildings, utility runs, and equipment layout, the position of roads, and other constructions

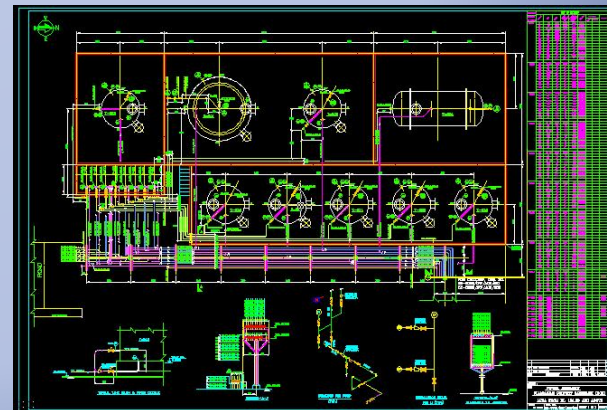
2. Equipment layout piping study:

- The final plant design is executed on this drawing. It shows the final locations of all equipments in plant.

Example plot plan



Example Equipment layout



3. Piping specification

4. Review of process package

5. Giving inputs to Civil, Structure, Vessel, Electrical, Instrumentation group

Example Piping Specification

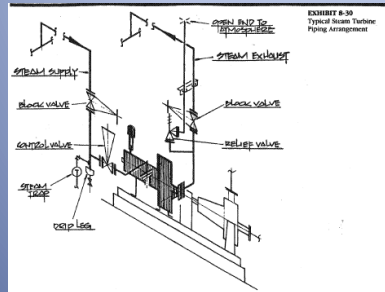
Piping components: Fitting (piping specification)

		PIPING SPECIFICATION		SHEET 2 OF 23																			
		ANSI 304 SS	ANSI 150 # CLASS	CLASS 304-1																			
		TEMPERATURE RANGE from -29 C to 427 C																					
Nominal Pipe Size (in)		1/4	1/2	1	1 1/2	2	2 1/2	3	4	6	8	10	12	14	16	18	20	24	28	32	36		
PIPE (8)	THK.	Sch. 40S, P.E.			Sch. 10S, B.E.				6.3 mm, B.E.														
	TYPE	EFV																					
	STANDARD	ANSI B36.19 / ANSI B1.20.1																					
	MATERIAL	ASTM A312-TP304											ASTM A258, C1.2, 304										
FLANGES	LINES	TYPE	VELD NECK																				
		CLASS	ANSI 150#, RF																				
		MATERIAL	A182 F304																				
		SIZE	ANSI B16.5																				
FLANGES	BLINDS	CLASS	ANSI 150#, RF																				
		MATERIAL	ASTM A182-F304																				
		SIZE	ANSI B16.5																				
		TYPE	Welding Neck																				
OS	OFFICE	CLASS	ANSI 300RF																				
		MATERIAL	ASTM A182-F304																				
		BORE	Same I.D. of attached pipe																				
		TYPE	Socket Weld, Seamless			Buttweld, Seamless																	

6. Preparation of Piping deliverables like

- Piping Layouts , Piping ISO's , Support drawing , Pipe rack study sketch
Nozzle orientation etc.

Example Piping ISO

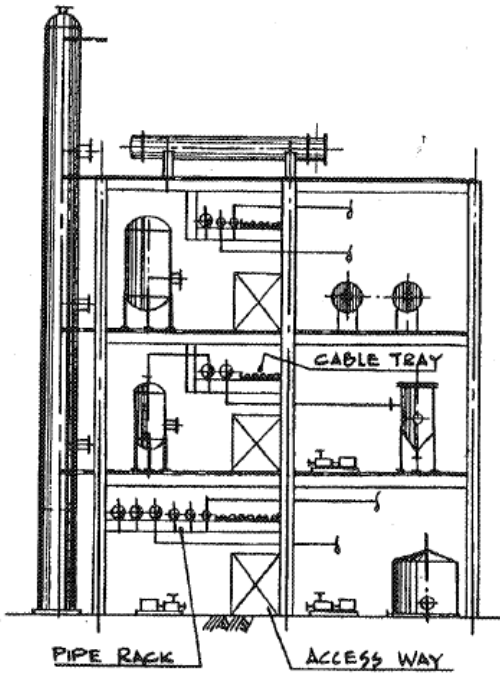


Example MTO Generation

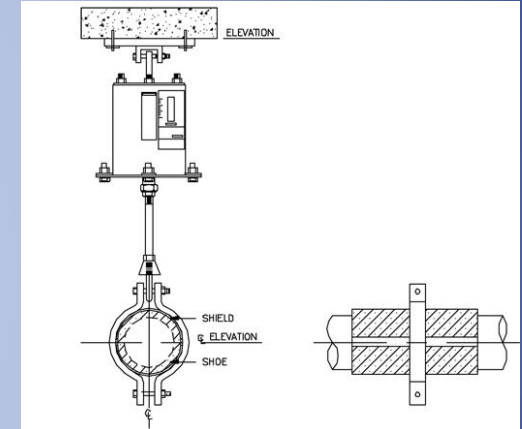
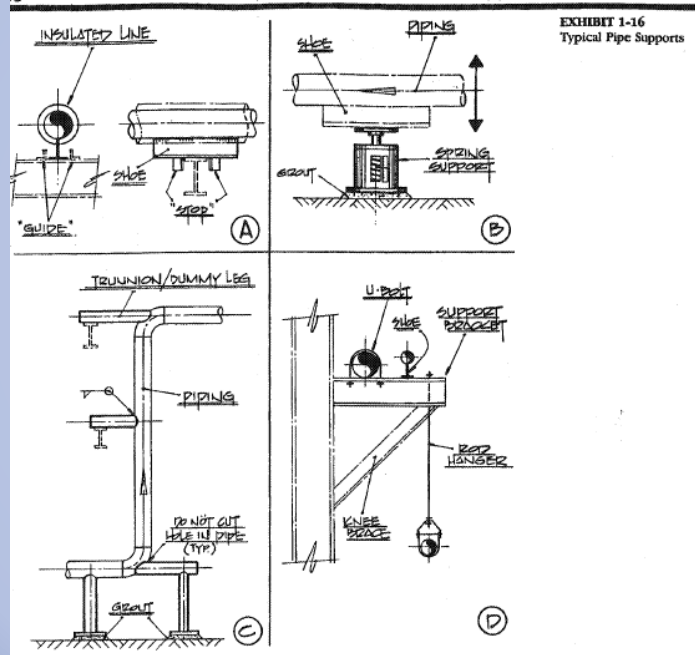
ITEM	DESCRIPTION	DIAMETERS	ENDS	RAT SCH	MATERIAL	QUANT.
1	PIPE	6"		STD	ASTM A53 Gr. B S	7097
2	PIPE	8"		20	ASTM A53 Gr. B S	3499
3	90 LONG R. ELB	6"	BW	STD	ASTM A234 Gr. WP	2
4	90 LONG R. ELB	8"	BW	20	ASTM A234 Gr. WP	3
5	CONC. REDUCER	8" 6"	BW	20	ASTM A234 Gr. WP	1
6	HALF RED. COUP	1"	SW	3000	ASTM A105	1
7	REDUCING TEE	8" 6"	BW	20	ASTM A234 Gr. WP	1
8	WELD. NECK FLA	6"	RF BW	150 STD	ASTM A105	1
9	WELD. NECK FLA	8"	RF BW	150 20	ASTM A105	5
10	CONTROL VALVE	8"	RF	150		1
11	GATE VALVE	8"	RF	150		1

Example Pipe Rack

EXHIBIT 3-22 Typical Pipe Rack in a Vertical Arrangement

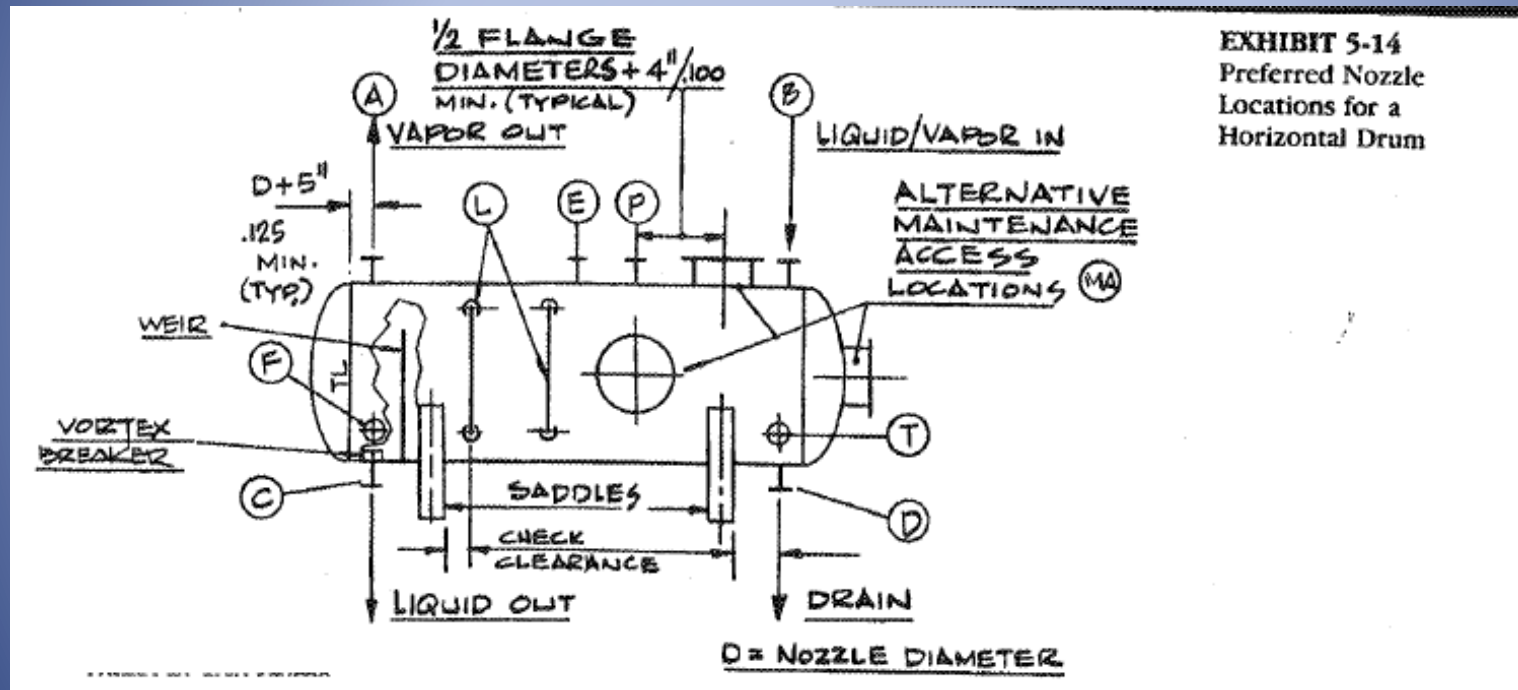


Piping Support drawing



7. Nozzle orientation preparation

Example Nozzle orientation drawing



8. Preparation of 3D model



In addition to that students know about....

- Piping Design basis
- Basics of feasibility study , costing, planning etc.
- Preparation of TBE (Technical Bid evaluation)
- Review and refer P &ID and PFDs
- Review and refer vendor drawings
- Prepare datasheet for specialty items
- Prepare stress analysis report

Our students can work in

- Designing
- Drafting
- 3D modeler
- Piping Stress engineer
- Piping Layout engineer
- Piping Material engineer
- Construction site piping foreman
- Erection and commissioning
- Maintenance engineer
- Pump / Compressor / Heat exchanger ...Rotary / static equipment manufacturing company post

Field where they can work

- Design Consultancies
- EPC & EPCIC
- Offshore & Onshore
- Chemical Plant
- Pharmaceutical Plant
- Oil and Gas Companies
- Water treatment plant
- Pipe and Pipe fittings manufacturing companies
- Valve manufacturing companies



Program Overview

- ✓ Comprehensive program designed based on real industry practices.
- ✓ Covered all major topics relative to process plant piping , detailed engineering , stress analysis etc.
- ✓ To fill gap between your valuable engineering knowledge and industry practices
- ✓ Numerous examples – Lessons learnt from industry
- ✓ Explanation through Videos e.g. [B/F valve](#)
- ✓ Test and tutorials based on industrial work
- ✓ At the end of program we will practice interview and working culture practice

Thank You

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