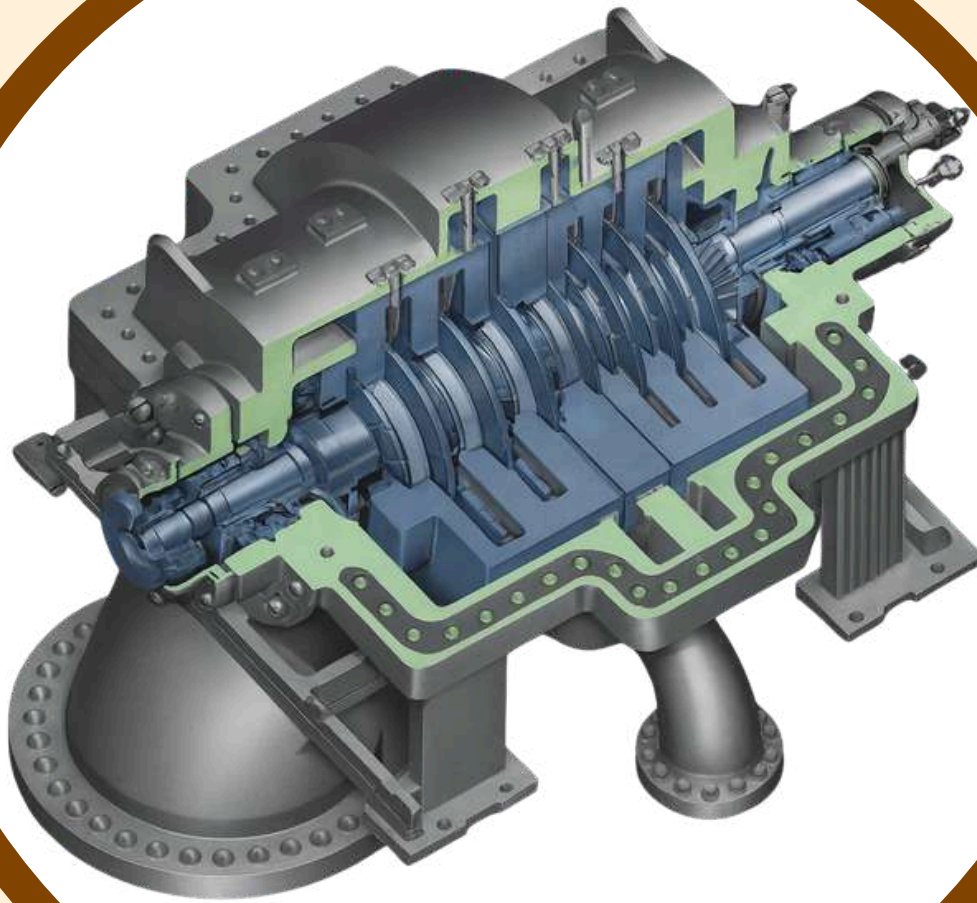


EXPRESS ENGINEERING SOLUTIONS



CENTRIFUGAL COMPRESSOR



ROTARY EQUIPMENT DESIGN

No one can de-code the code like us...!



+91 9921229232



training@express-engg.com

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CLICK THE TOPICS FOR DETAILS



Course Content



About Us



Know The Trainer



Who Should Do This Course?



Design Services



Training Services



Corporate Training



Our Customers





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Our Track Record



About The Training
Platform



Online VS Offline
Training



Our Other Courses



Contact Us



Course Content

1 CENTRIFUGAL COMPRESSOR (32 hrs)

- ➡ What is EPC & EPCM & their role in Oil & Gas sector.
- ➡ Basics of Centrifugal Compressor – Gas Equation & Polytropic Head Calculation.
- ➡ Salient Features of Engineering.
- ➡ Design & Engineering Stages.
- ➡ Design Codes & Standards
- ➡ Definition of Key Terms.
- ➡ Centrifugal Compressor Calculations
- ➡ Centrifugal Compressor Configurations..
- ➡ Basic Design of Components.
- ➡ Dry Gas Sealing Arrangement.
- ➡ Material of Construction.
- ➡ Equipment Selection Criteria.
- ➡ Auxiliary Equipment Design Requirement .
- ➡ Various Steps during Detail Engineering & Procurement.
 - 1) Mechanical Datasheet & Specification Preparation as a part of RFQ.
 - 2) Technical Bid Evaluation.
 - 3) Purchase Requisition Preparation.
 - 4) Vendor Data Review.
- ➡ Inspection & Testing Requirement.
- ➡ Spare Parts Requirement.
- ➡ Importance of communication with Stakeholders.
- ➡ Role of Rotary Equipment Engineer.



About Us



Why Choose Us

With vast domain experience, highly capable & equipped Engineering Team we are specialized in providing the most professional Engineering services with fast turn around time. We also help businesses meet their goals with our cutting edge Engineering & Training services.



Mission

Our mission is to deliver world-class engineering solutions with simplicity, precision, and speed, while empowering professionals through comprehensive training that meets global industry standards.



Vision

To create a future where our cutting-edge expertise in engineering solutions and professional training empowers both clients and the industry, making us an indispensable partner in their success.



Our Core Values

1) INNOVATION

We consistently challenge the status quo by exploring new ideas & technologies to deliver creative, cutting-edge solutions.

2) INTEGRITY

We operate with unwavering honesty & transparency, building lasting trust with every client and partner.

3) CUSTOMER FOCUS

We are committed to understanding our clients' unique challenges & providing tailored, value-driven solutions.

4) ETHICS

We collaborate & support one another, believing our collective strength drives the best results for our clients.



Know The Trainer



Profile Highlights

Vikas is a highly motivated engineering professional and passionate trainer with an exceptional career spanning more than **28 years**. He holds a B.E. in Mechanical Engineering & an M. Tech. in Hydraulic Machines, providing him with a profound academic & technical foundation in rotary and package equipment engineering.

As a veteran in the field, Vikas possesses extensive working knowledge of international codes & standards, including **API & ISO**. His career includes significant contributions to major sectors such as oil & gas exploration, refineries, petrochemical projects, & Green H₂/NH₃ generation FEED projects. He has served esteemed operating companies & global firms including SABIC, Reliance Industries, Fluor Daniel, Jacobs Engineering, & Sulzer Pumps.

Vikas is recognized for his specialized expertise in a wide range of critical equipment, including API 610 Process Pumps, Centrifugal and Screw Compressors, Steam Turbines, & various Utility Packages. He has successfully delivered high-impact training modules on Centrifugal Pumps, Compressors, & Steam Turbines for both in-house teams & as a specialized freelancer.

With a focus on mentoring fresh & early-career engineers, Vikas has successfully upskilled & empowered over 100+ professionals through both online & offline platforms. His training is characterized by a logical, analytical approach to problem-solving & technical troubleshooting, ensuring that participants—ranging from entry-level to those with 15 years of experience—gain the practical, "real-world" skills required to manage complex rotary systems.

His vast experience and dedication to inclusive growth make him an invaluable asset to any engineering professional looking to master the intricacies of Rotary Design and Engineering.



Who Should Do This Course?



How We Can Help..!

This course is ideal for professionals who are involved with or aspiring to work in the **design, engineering, procurement, & operation of centrifugal compressors in the oil & gas, process, & related industries**. Specifically, it is suited for:

- **Mechanical / Rotary Equipment Engineers** – Looking to deepen their understanding of centrifugal compressor design, calculations, configurations, & auxiliary equipment.
- **Project Engineers & Design Engineers** – Working in EPC/EPCM projects, involved in detailed engineering, procurement, & vendor evaluation processes.
- **Piping & Process Engineers** – Who want to understand compressor behaviour, system integration, & design requirements.
- **Procurement & Technical Evaluation Professionals** – Responsible for mechanical datasheets, RFQ specifications, bid evaluation, & vendor data review for compressors.
- **Inspection & Quality Engineers** – Focused on inspection, testing, & verification of compressors & their components.
- **Operations & Maintenance Engineers** – Who need to understand dry gas sealing, materials of construction, & spare parts requirements for reliable operation.
- **Engineering Students & Fresh Graduates** – Aspiring to enter the oil & gas or process industry & gain practical, industry-relevant knowledge about centrifugal compressors.

Why Take This Course:

This course **bridges the gap between theoretical knowledge & practical application**. Participants will learn not only the fundamentals of centrifugal compressors but also the **critical engineering, procurement, & stakeholder communication aspects** required for **real-world EPC/EPCM projects**.



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Design Services

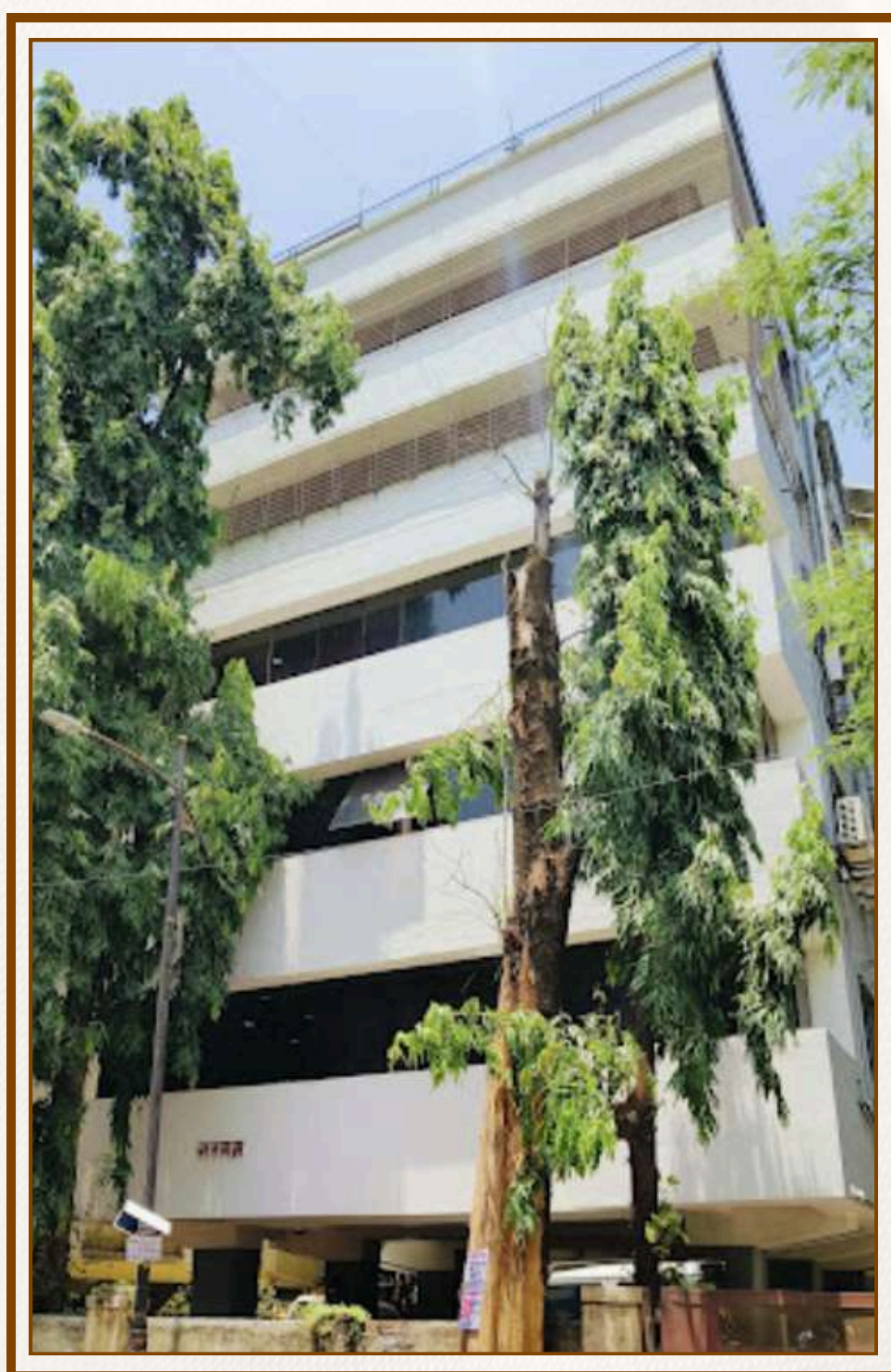
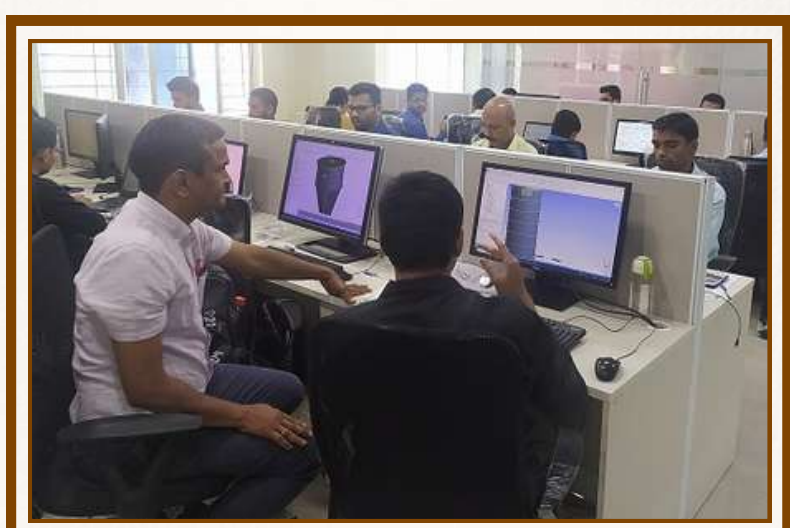


About Us

With vast experience in Static Equipment Engineering, we offer the best, cost-efficient solutions to our customers. Our Engineering team is capable to deliver Design of Pressure Vessel, Heat Exchanger, Condenser, Reactor, Column, Storage Tank, and other static equipment, as per various national and international codes and standards.

The team is well experienced and trained to deliver Design as per ASME Sec VIII Div-1, Div-2, PED, ADMerk Blatter, PD5500, AS1210, GOST, TEMA, API 660, API 650, API 620, IBR, EN13445, etc.

We have successfully completed many ASME U-stamp audits and worked on hundreds of U-stamp vessels closely with many certifying agencies.



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Training Services



About Us

Our training program offers a unique and professional platform for engineers to master their skills to meet the demanding requirements of industries. As an Authorized Training Provider for ASME, we stand firmly behind our mission: **“No one can decode the code like us.”** This expertise is rooted in our deep understanding of various national and international standards, delivered by **seasoned industry veterans** who are currently active in their fields to bridge the gap between theory and real-world application.

Drawing on extensive multi-disciplinary expertise, we provide **comprehensive** courses tailored to the rigorous demands of today's market. In a remarkably short time, our **commitment to excellence** has established us as the most trusted and preferred training partner for leading corporations and ambitious individuals globally.



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Corporate Training



Onsite Corporate Trainings

We have been instrumental in developing the workforce for organizations through our onsite training under our corporate training program. These training has helped the corporates to develop the skills and knowledge of their resources and as a result increase the output with better and optimized design of equipment.



Our Customers



Our Corporate/Individual Customers

We have been instrumental in developing the workforce for organizations through our onsite training under our corporate training program. These training has helped the corporates to develop the skills & knowledge of their resources & as a result increase the output with better & optimized design of equipment.



Our Track Record



How We Have Been Doing..!



100+

Corporate Customers



4000+

Satisfied Trained Individual
Online & Offline Combined



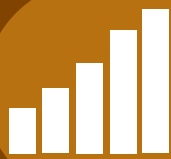
20+

Countries With Beneficiaries
Across The Globe

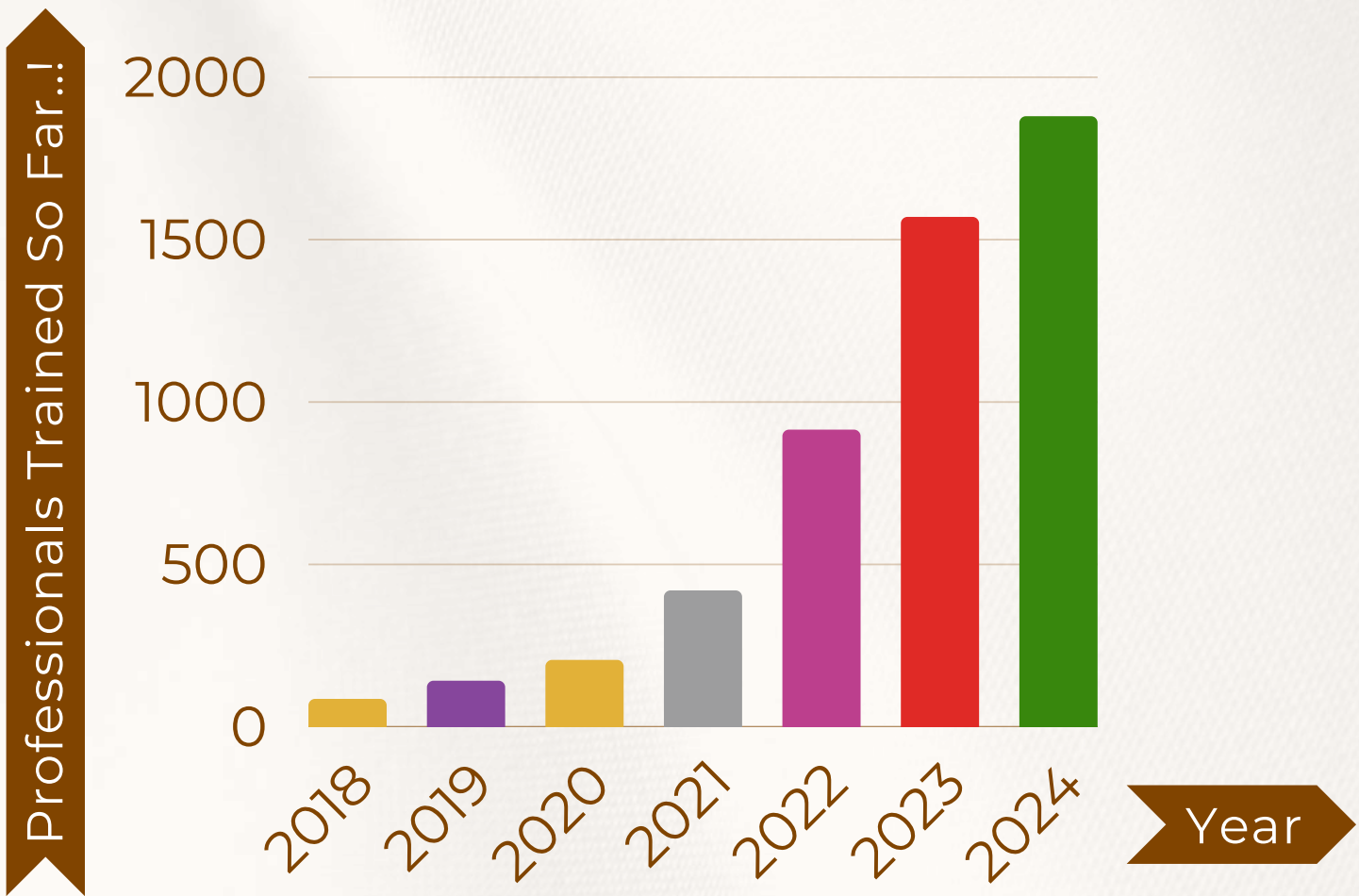


0-28

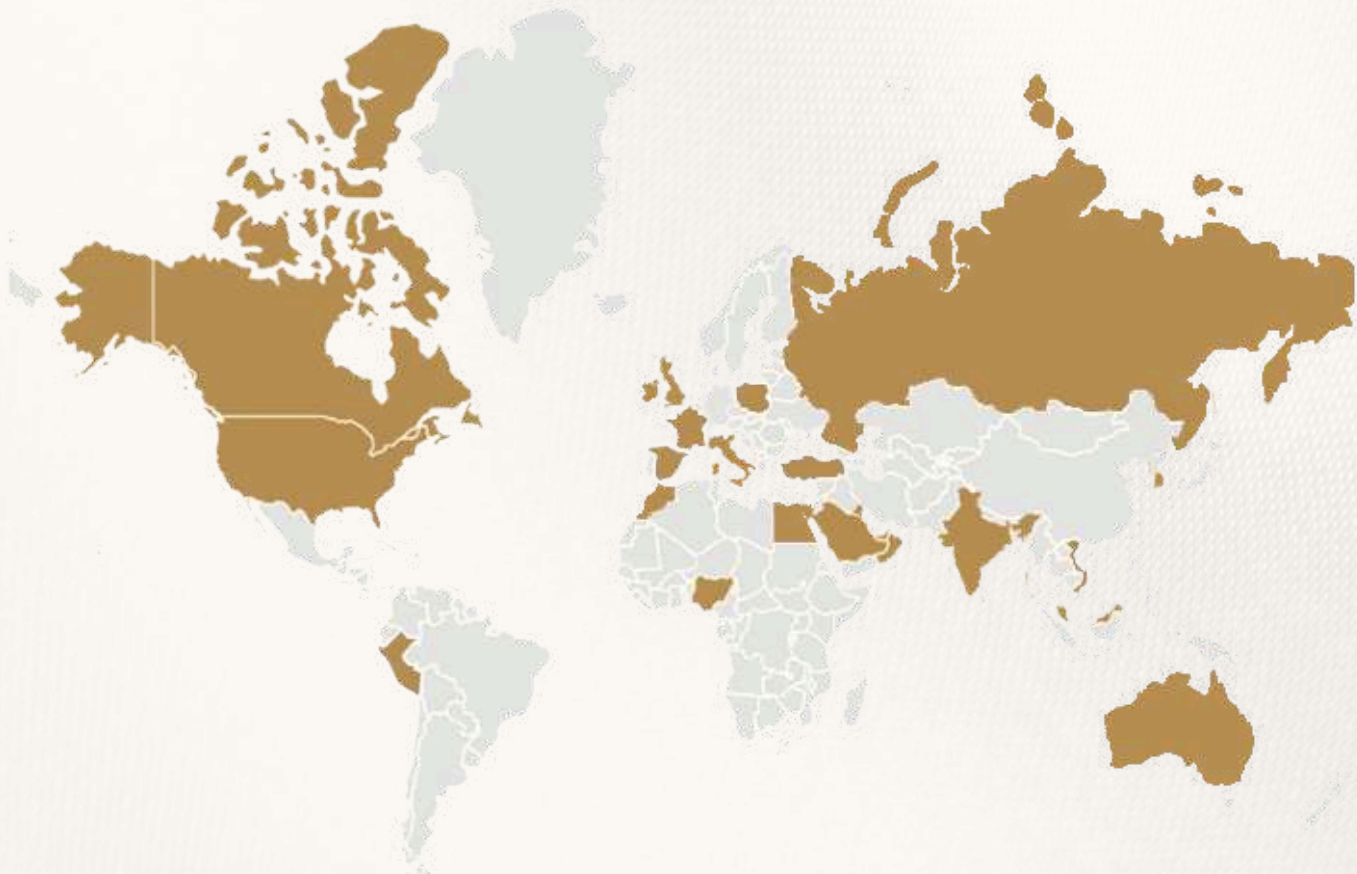
Experience Range Of
Engineers Trained



Over The Year...!



Beneficiaries Across The Globe



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About Training Platform



Mobile & Laptop/ Desktop

Expert and Professional training available at your convenience, with our Mobile & Desktop application.



WATCH FREE LECTURE VIDEOS



GET IT ON
Google Play





Download on the
App Store



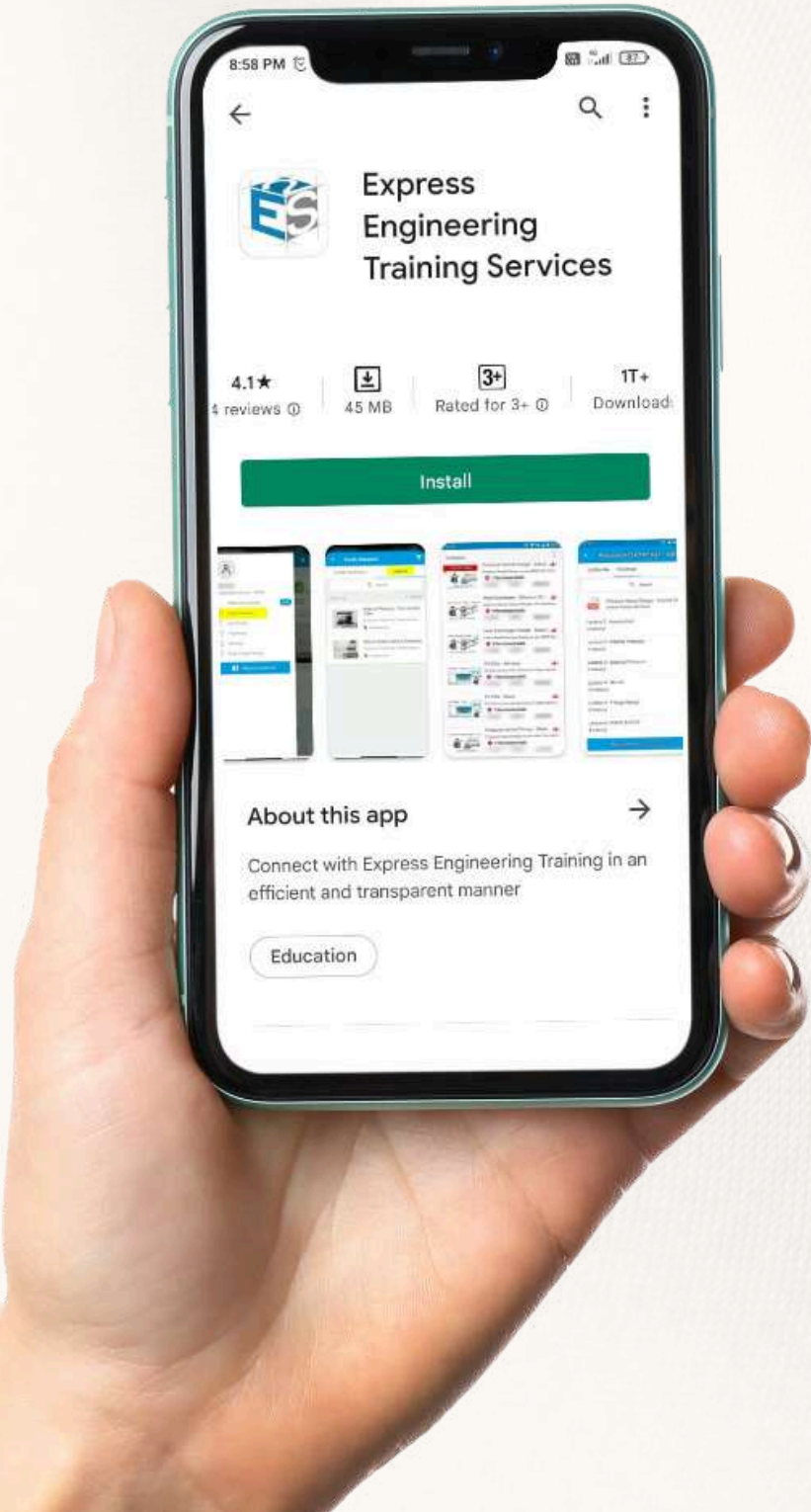


PLAYSTORE



IOS APP

use organization code **yatgi**

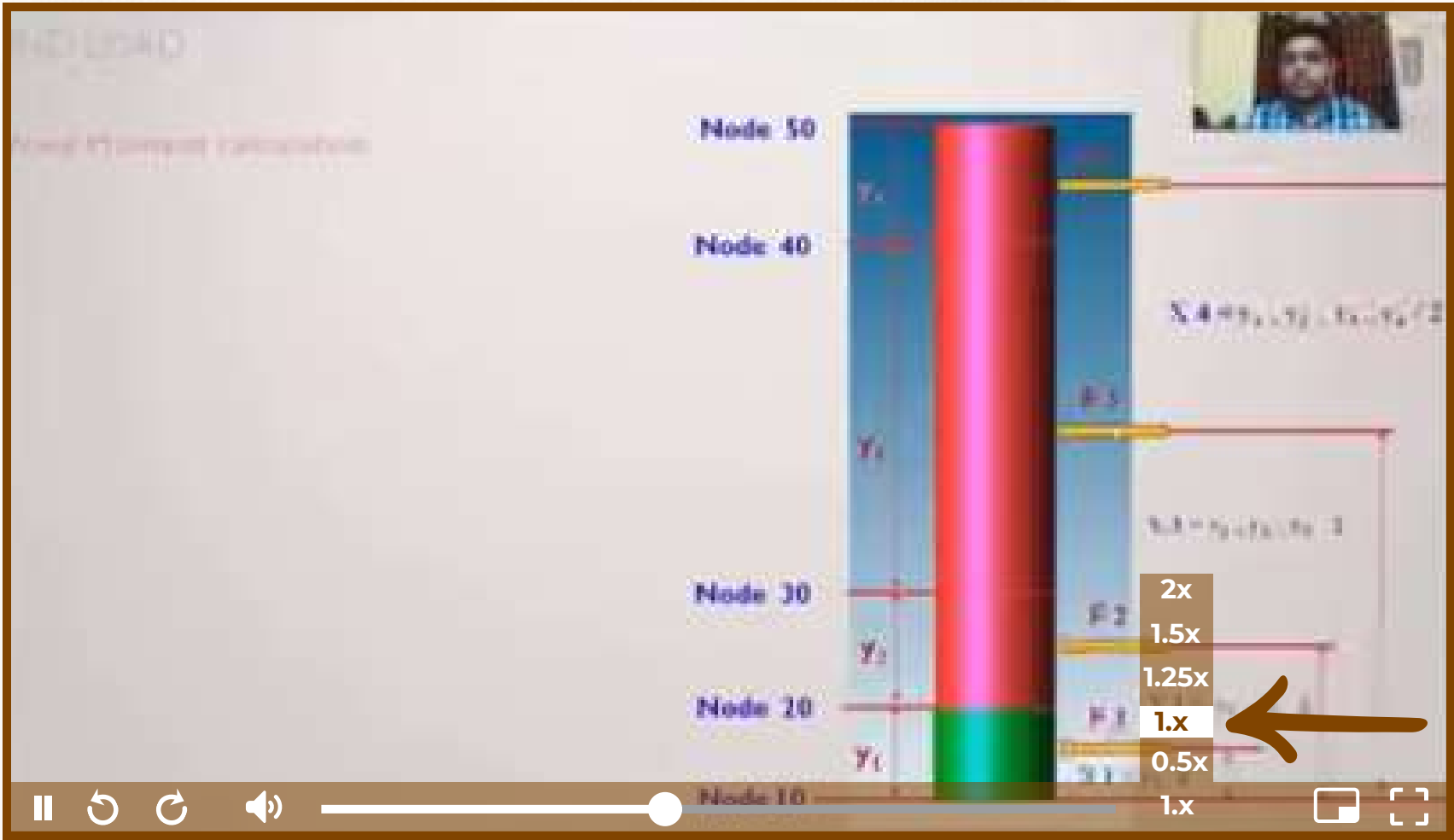


About Training Platform

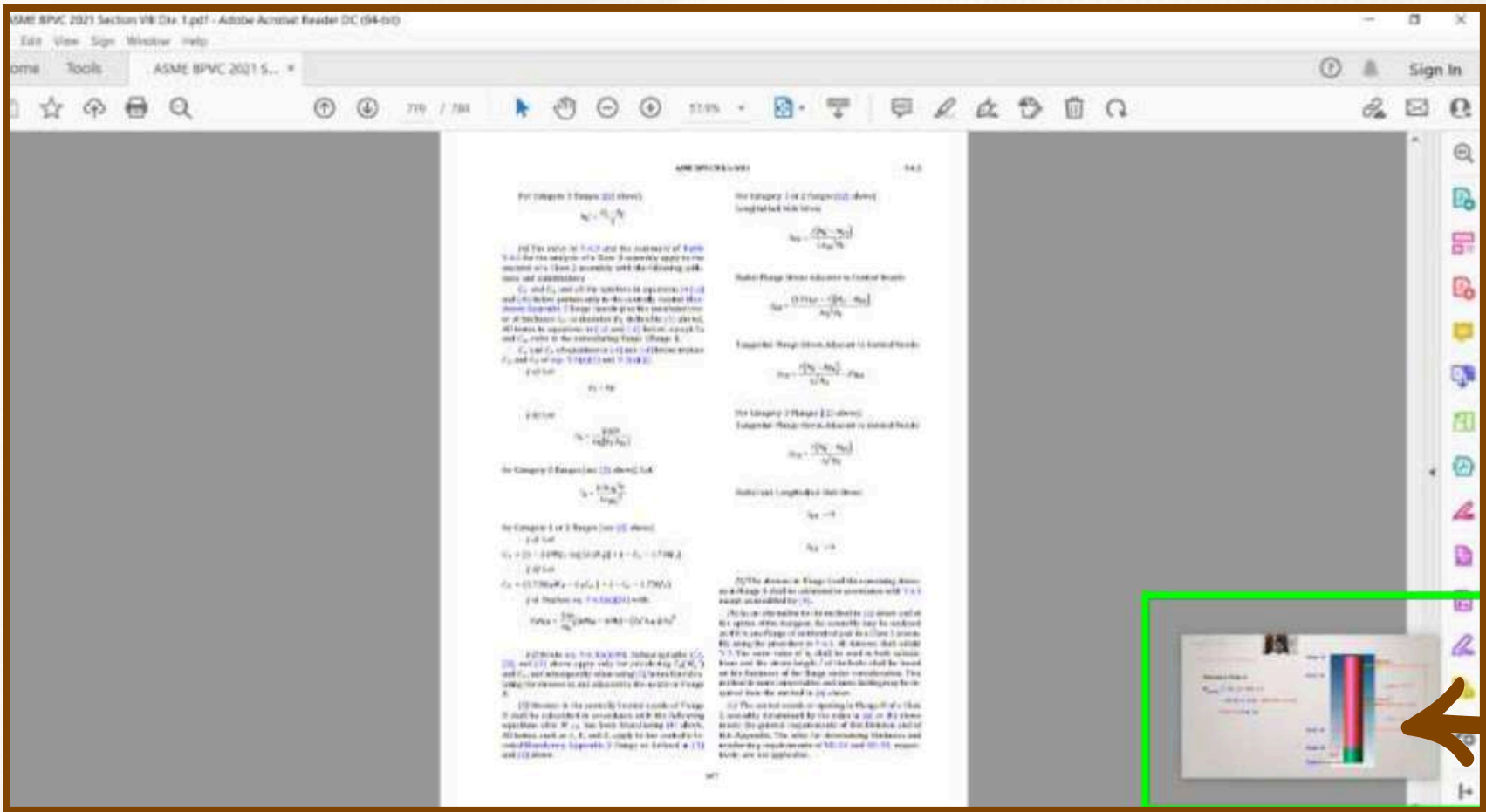


Special Features

It has never been so convenient to learn...! Check out some special features of our Training Platform. Adjust video speed from 0.5x to 2x to suit your requirement.



PIP mode enables you to work or practice simultaneously while watching the lectures.



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Advantages Over Offline Courses



Benefits Of Online Training

Offline

Online

No more compromise on work or personal schedule

Getting late for the class. **Need to rush** or I'll miss the lecture.



I can **save travelling time** and **avoid stress** by watching lectures online **as per my convenience**.



Get answers on the go...!

I am stuck in the Project. But this topic is scheduled after 4 weeks in the live class. **How can I solve it now?**



I was stuck..! But I **just watched this topic online** and bingo..! **the problem is solved**. I simply love this platform.



Live Q&A session every week

The Classes are over. **Whom can I ask** the questions now?



My Course **validity is 18 months**. Also the **live Q&A session is twice a week**. I can get all the answers.



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Advantages Over Offline Courses



Benefits Of Online Training

Offline

Online

Never Miss Out On Any Lectures

I **missed** the last lecture, now I **cannot understand** this...!



This is so cool..! I can **watch any lecture anytime**.



Learn At Your Own Pace

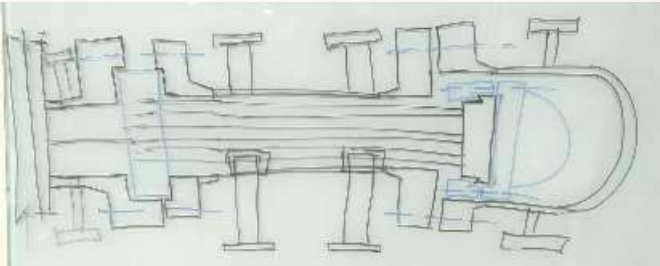
He is teaching **so fast**. It is **very difficult to understand**...!



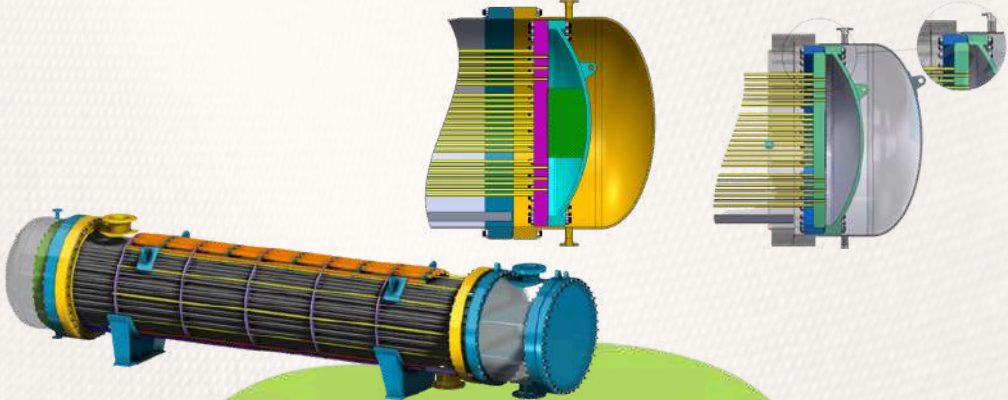
I can **speed up or speed down** the lecture videos as per my convenience.



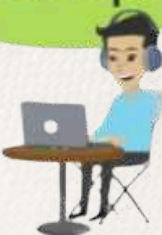
No Disturbances | Video Lectures | Animations



This is so **disturbing**...! **Not able to visualize** the concept with these 2d hand sketches



Such **easy to understand** demonstrations with **3d animations** help me to visualize and clear my concepts..!



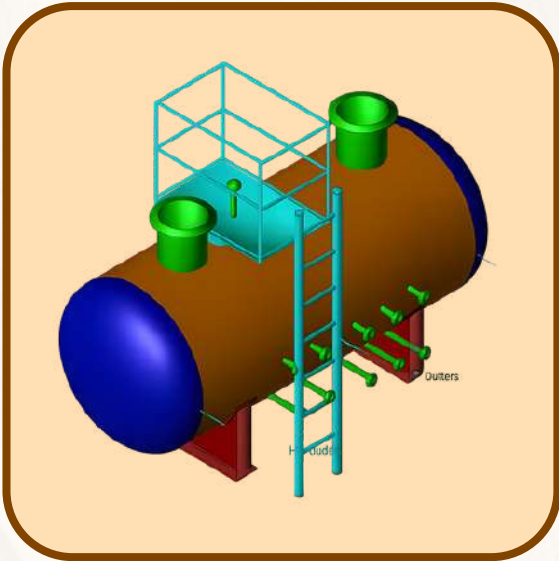
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Our Other Courses



STATIC EQUIPMENT DESIGN



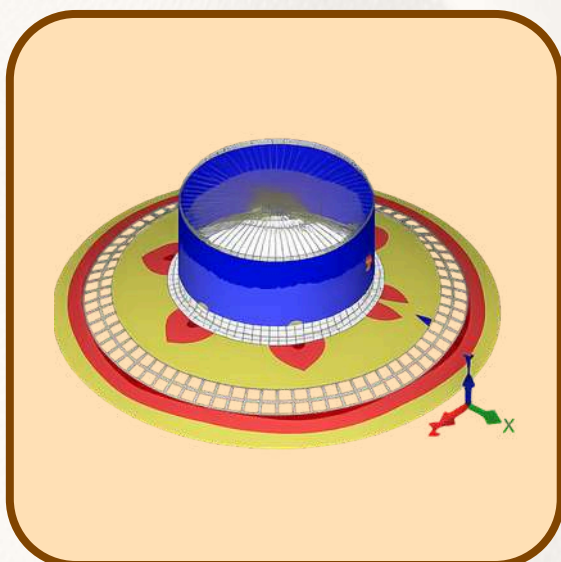
**PRESSURE VESSEL
DESIGN (DIV 1)**



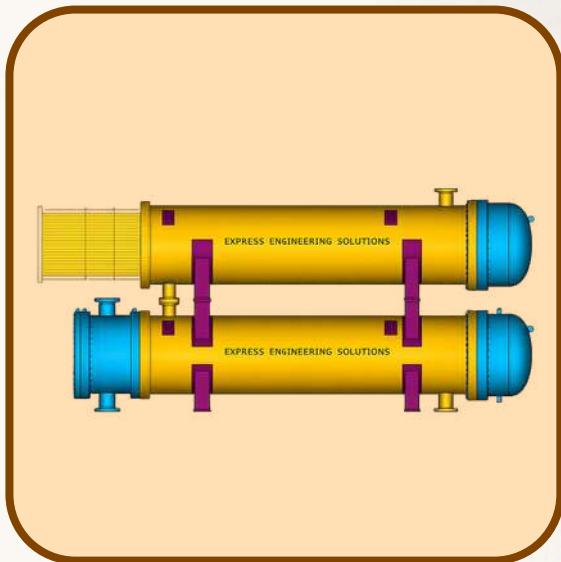
**PRESSURE VESSEL
DESIGN (DIV 2)**



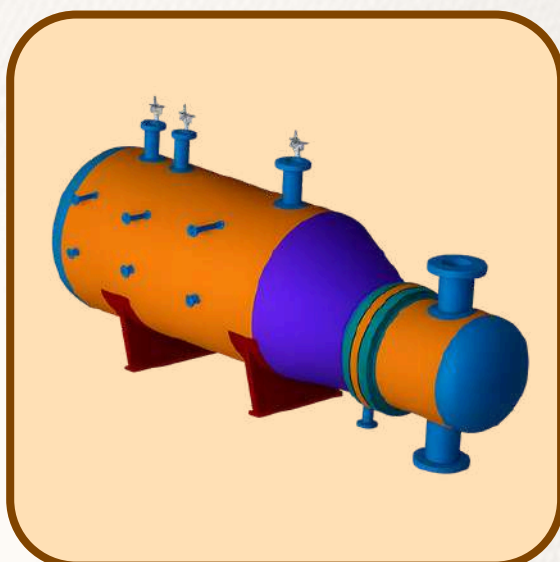
PREMIUM COMBO



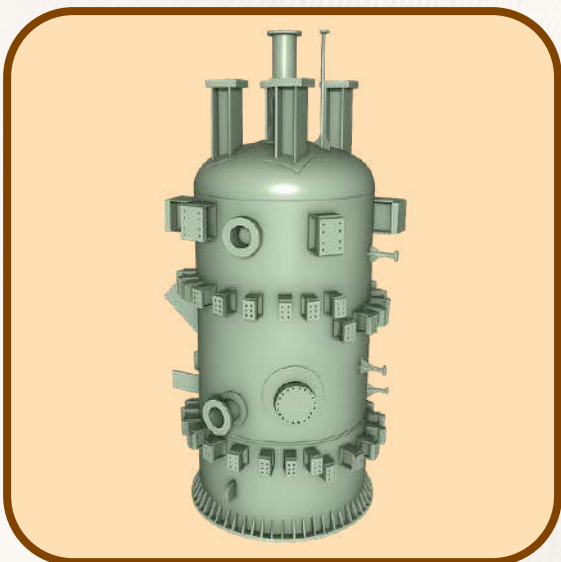
NOZZLE PRO FEA



**HEAT EXCHANGER
DESIGN**



**PV ELITE
SOFTWARE**



**DIV 1 & DIV 2
COMBO**



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Our Other Courses



ASME AUTHORIZED COURSE



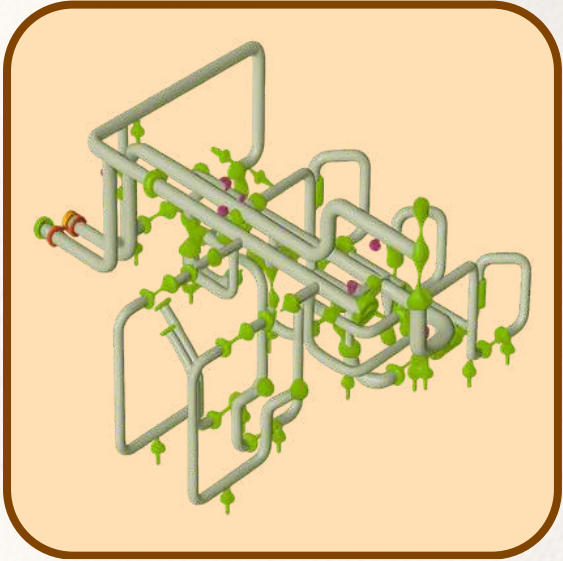
ASME PD442 



PIPE STRESS ANALYSIS



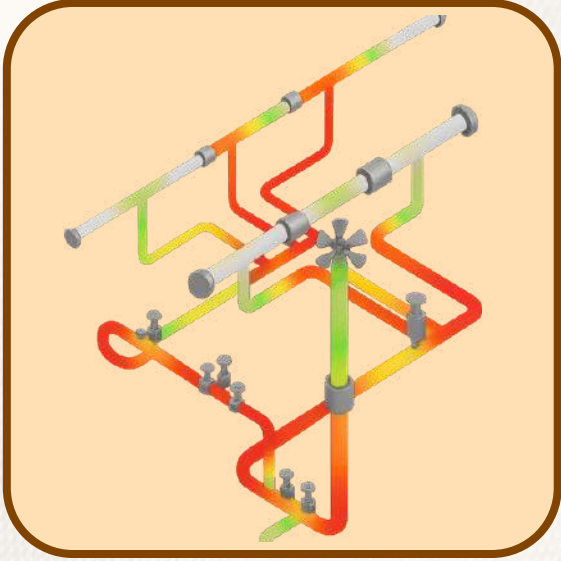
BASIC PIPE STRESS ANALYSIS 



ADVANCE PIPE STRESS ANALYSIS 



BURIED PIPELINE STRESS ANALYSIS 



COMBO PIPING & PIPELINE STRESS ANALYSIS 

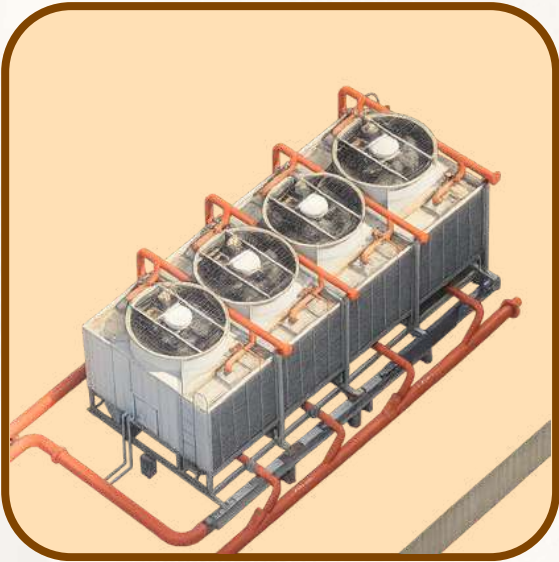


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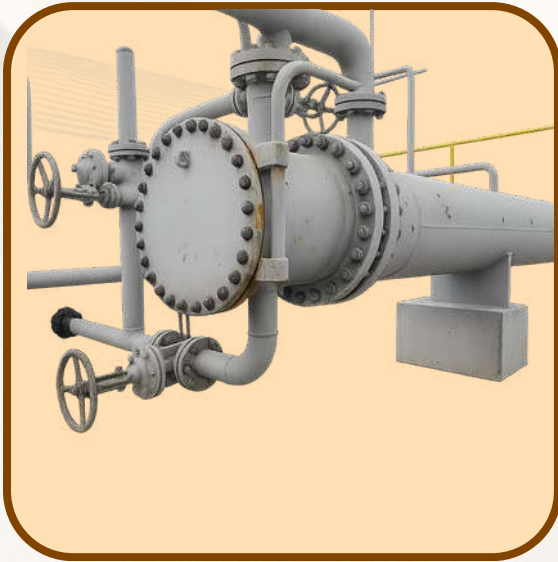


Our Other Courses

THERMAL DESIGN



AIR-COOLED
HEAT EXCHANGER
(ACHE) 



SHELL & TUBE
HEAT EXCHANGER
(STHE) 



THERMAL DESIGN
COMBO
(STHE & ACHE) 



Our Other Courses



OTHER COURSES



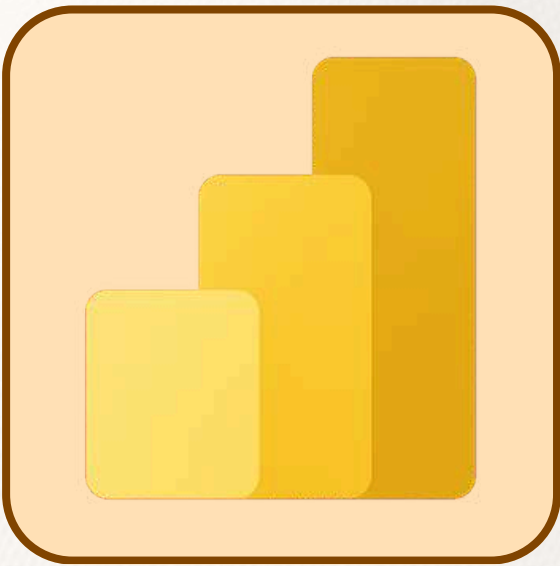
CENTRIFUGAL PUMPS
IN OIL & GAS
INDUSTRY 



ROTARY
EQUIPMENT DESIGN
COMBO 



MS EXCEL 



POWER BI 



GD&T (BASIC) 



GD&T (ADVANCE) 



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training@express-engg.com



PUNE

Sargam Tower, 1st & 2nd Floor,
Survey No - 43/1-9, Behind Girija
Hotel, DP Road, Near Rajaram
Bridge, Karvenagar, Pune - 411 052



SURAT

348, Green Palladia, Opposite Raj World,
Near Gaurav Path Road, Palanpore,
Surat, Gujarat - 395009



SCAN FOR
WEBSITE 



CLICK FOR
WEBSITE 

