



EXPRESS ENGINEERING SOLUTIONS

POWER BI BASIC & ADVANCE



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



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training@express-engg.com

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Course Content

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POWER BI

Lecture No	Topics CLICK ON TOPICS FOR DETAILS
1	Introduction to BI
2	Get Started with Power BI
3	Import Data from different Sources
4	Data Transformation - Power Query Editor
5	Building Data Model
6	Viz & Tiles
7	DAX functions
8	Publishing Reports to Workspace
9	Capstone Projects



POWER BI (BASIC & ADVANCE)

POWER BI (BASIC & ADVANCE)

1 Introduction to BI

- A. What is BI (Business Intelligence)
- B. Importance of BI
- C. Different Tools of BI

2 Get Started with Power BI

- A. Introduction to Power BI
- B. Overview: Power BI concepts
- C. User Interface of Power BI
- D. Sign up for Power BI

3 Import Data from different Sources

- A. Import from various sources like Excel, CSV, Text, Website, Folder, SQL, SharePoint etc.

4 Data Transformation - Power Query Editor

- A. Get data
- B. Reduce data
- C. Transform data
- D. Load data

5 Building Data Model

- A. Introduction to Data Modelling
- B. Importance of Data Modelling
- C. Understanding of Primary Key vs Foreign Key
- D. Create, edit & delete relationship between tables
- E. Active vs In Active relationship
- F. Understanding of Snowflake Schema, Star Schemas



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POWER BI (BASIC & ADVANCE)

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Viz & Tiles

- A. Overview: Visualizations
- B. Creating, Modifying & formatting visualizations
- C. Create a new report
- D. Creating a report layout
- E. Use a slicer to filter visualizations
- F. Sort, copy, & paste visualizations
- G. Download & use a custom visual from the gallery

7

DAX functions

- A. Understanding Data Analysis Expression
- B. Creating Calculated Columns, Measures
- C. Date and time functions
- D. Text Functions
- E. Logical Functions
- F. Related Functions
- G. Implicit vs Explicit Measures
- H. Statistics Functions
- I. Filter Functions
- J. X-factor Functions
- K. Time intelligence Functions
- L. Rank Functions
- M. New Table & Quick Measures

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Publishing Reports to Workspace

- A. Share Data within Organisation & to Others
- B. Publish a report to the web
- C. Manage published reports
- D. Share a dashboard
- E. Embed a report in Share-Point Online

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Capstone Projects

- A. Project #1 – Manufacturing Dashboard
- B. Project #2 – E-commerce Dashboard



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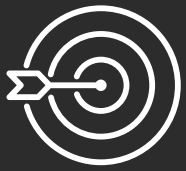


About Us



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



Hiren Kakkad

Hiren is a distinguished Quality & Productivity Management professional & a University First Rank holder in his postgraduate studies. He has more than 8 years of industrial experience as a Senior Consultant & Trainer, specializing in Data Analytics, Operational Excellence, & Lean Methodologies.

He is a well-known corporate leader & trainer with versatile experience across various technical & management domains. A Certified Lean Six Sigma Black Belt & ISO 9001 Internal Auditor, Hiren has successfully conducted trainings & implemented improvement projects for more than 9,000 professionals globally.

Hiren has served as a strategic consultant for numerous organizations, leading over 100 improvement projects & performing Quality Management System audits for more than 15 companies. He is recognized for his ability to translate complex data into actionable business intelligence through tools like Excel, Python, R, Minitab, & Power BI.

He has been a key contributor to the academic & research community, assisting in 35+ research projects and developing over 50+ customized analytical templates & dashboards to optimize business reporting.

With thorough technical knowledge & an unmatched ability to decode complex industry standards, he has supported countless customers in addressing their operational challenges & delivering high-quality, data-driven outputs.



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Who Should Do This Course?



How We Can Help..!

- **Manufacturing & Operations Managers:** To track Overall Equipment Effectiveness (OEE) and production line health in real-time.
- **Quality Control (QC) Engineers:** To monitor defect trends, Pareto charts of failures, and Six Sigma compliance across multiple batches.
- **Supply Chain & Procurement Engineers:** To track lead times, vendor performance, and inventory levels to prevent "stock-outs" of critical components.
- **Maintenance Engineers:** To move from "Reactive" to "Predictive" maintenance by visualizing sensor data and telemetry



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Design Services

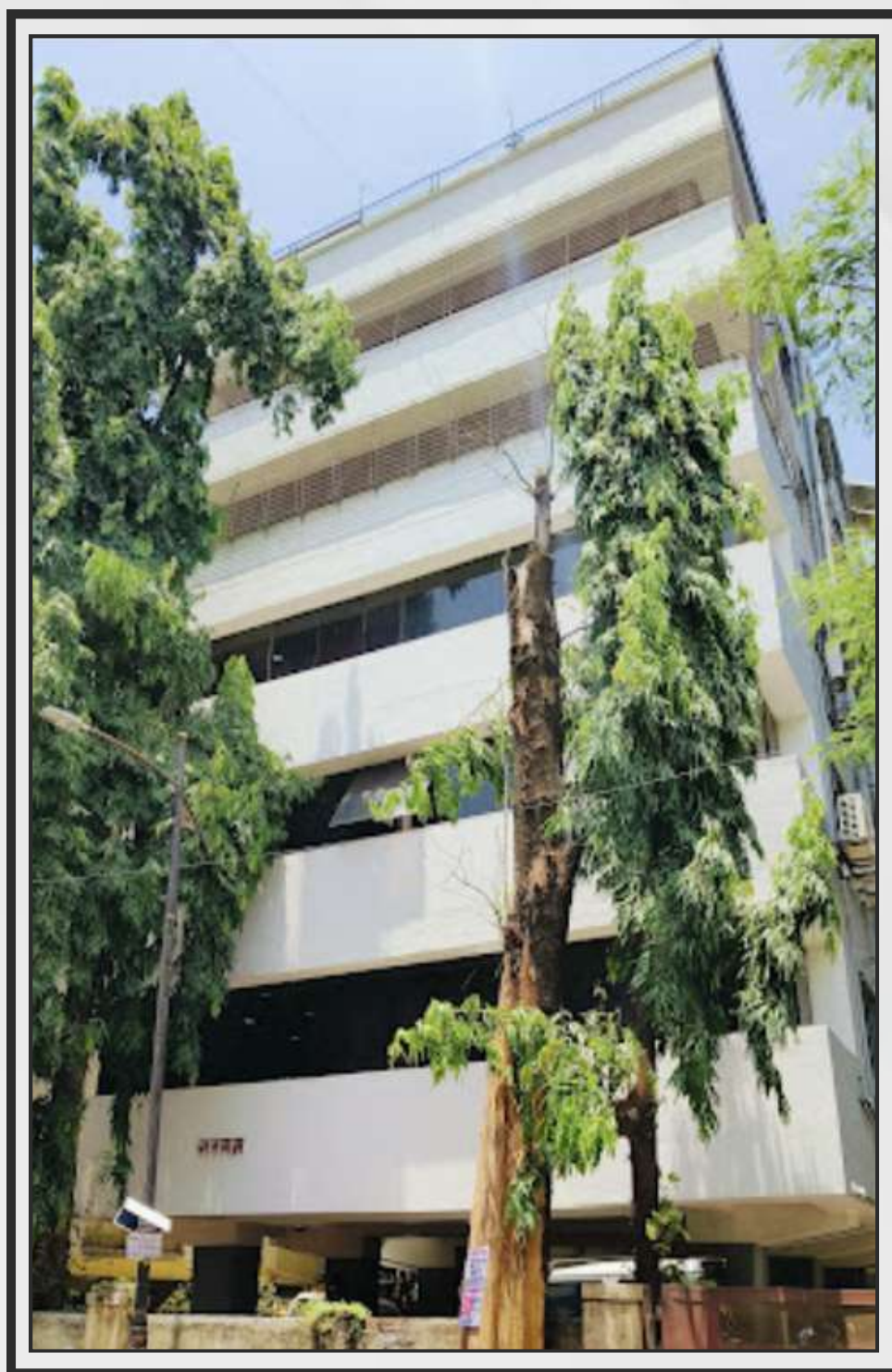


About Us

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.

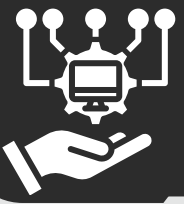
We have successfully completed many ASME U-stamp audits and worked on hundreds of U-stamp vessels closely with many certifying agencies.



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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.



Esteemed Customers

Our Corporate 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.



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Our Track Record

How We Have Been Doing..!

- 

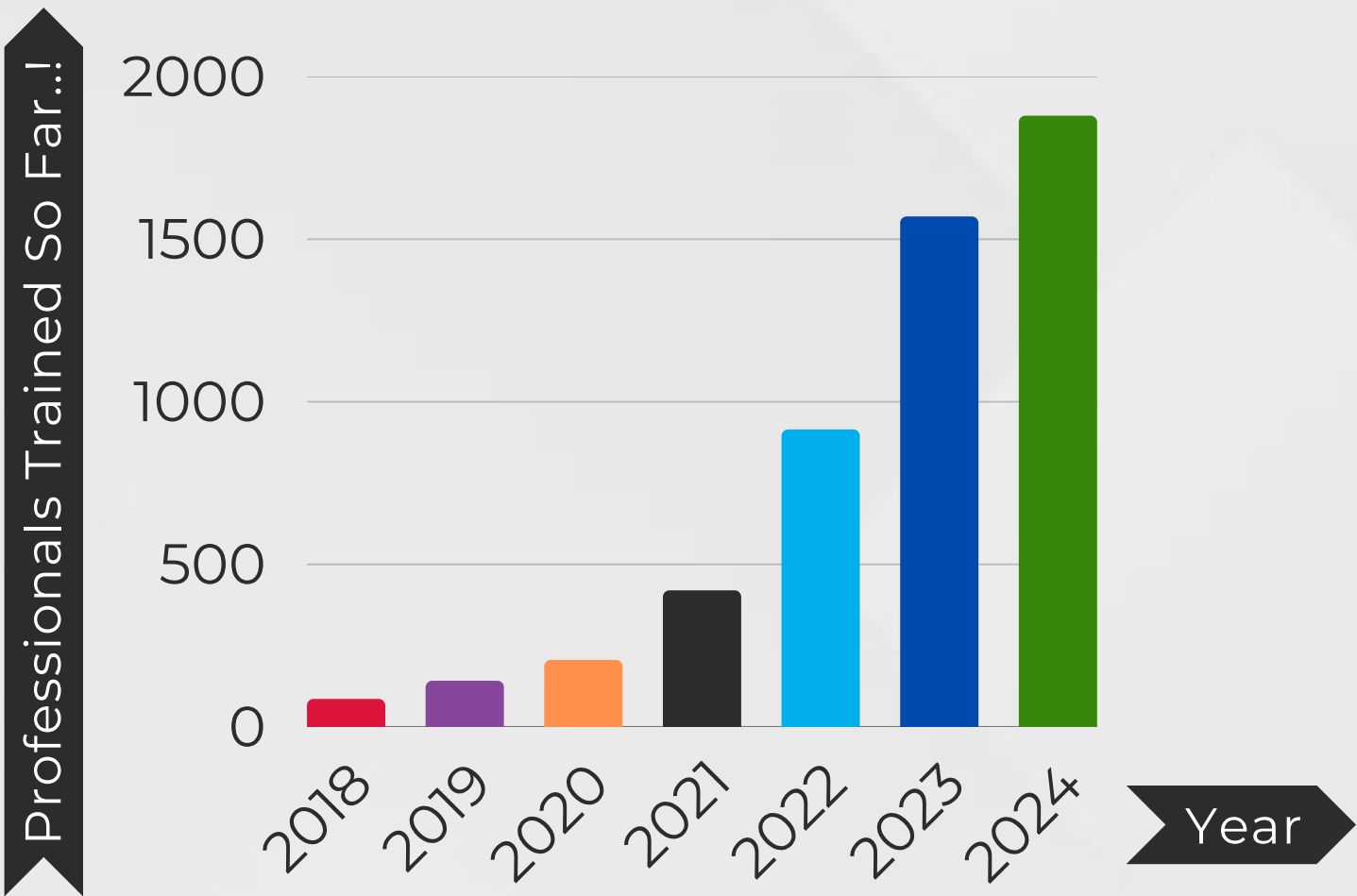
100+ Corporate Customers
- 

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



About Training Platform



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



PLAYSTORE



IOS APP

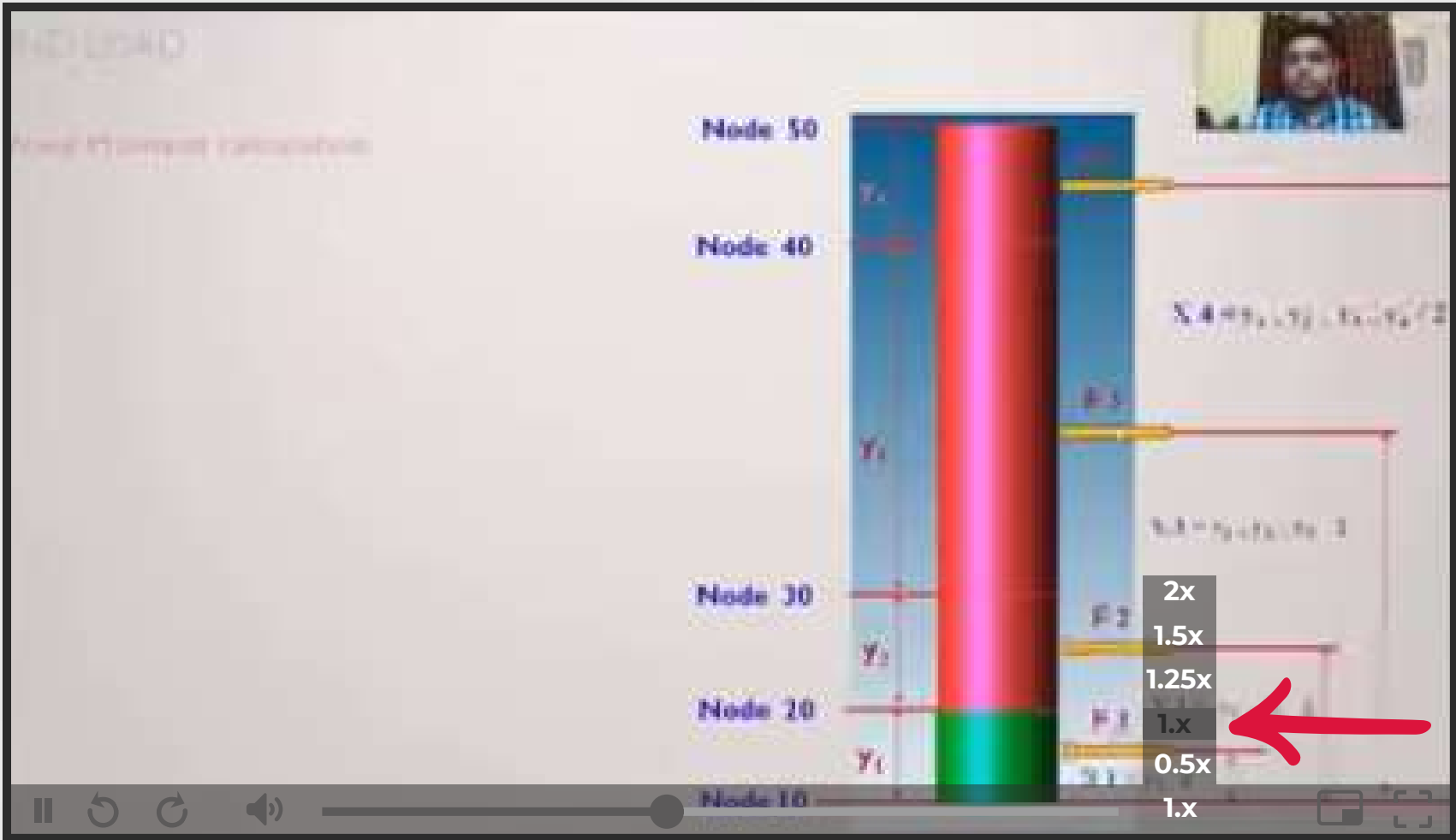
use organization code **yatgi**



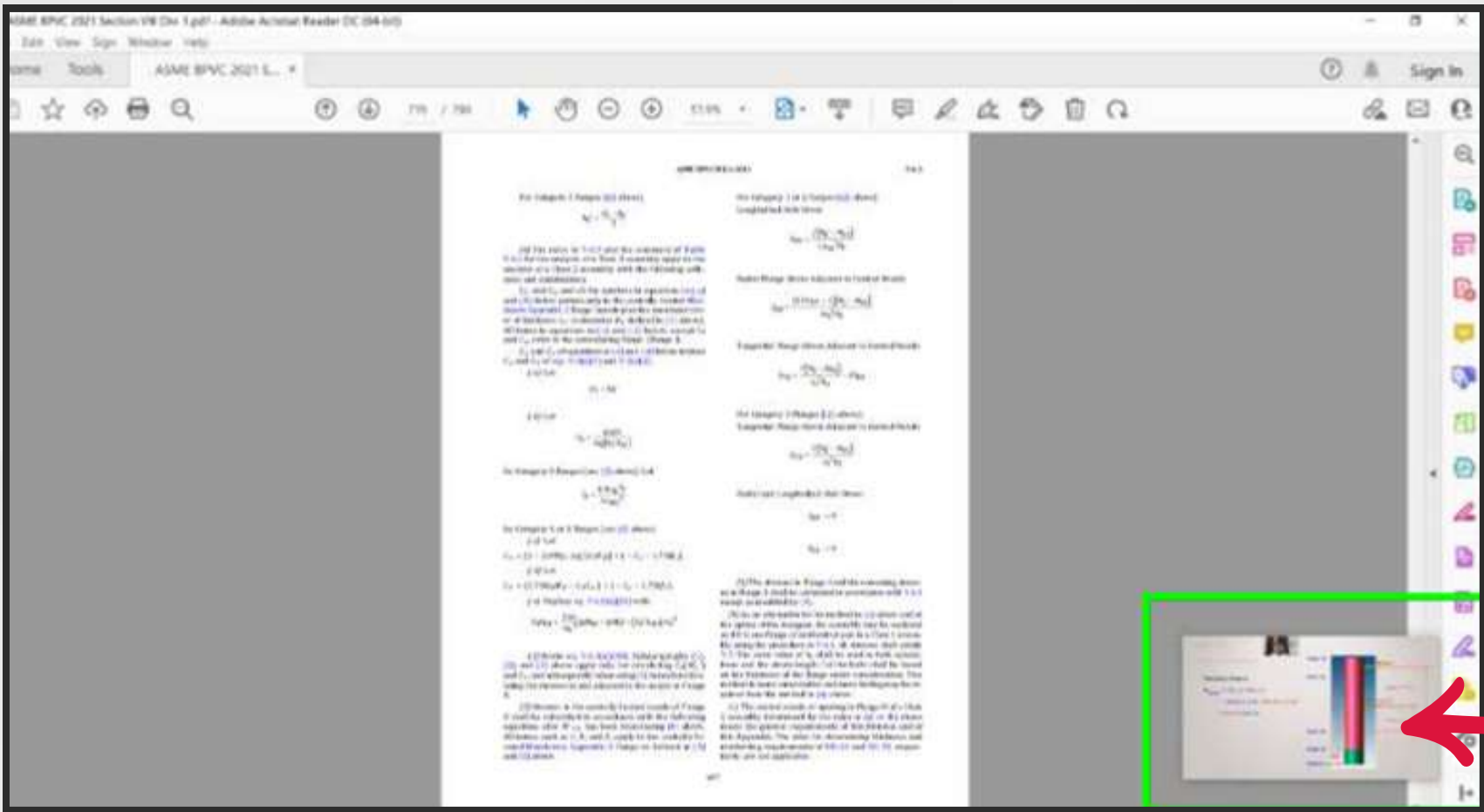
About Training Platform



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.



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

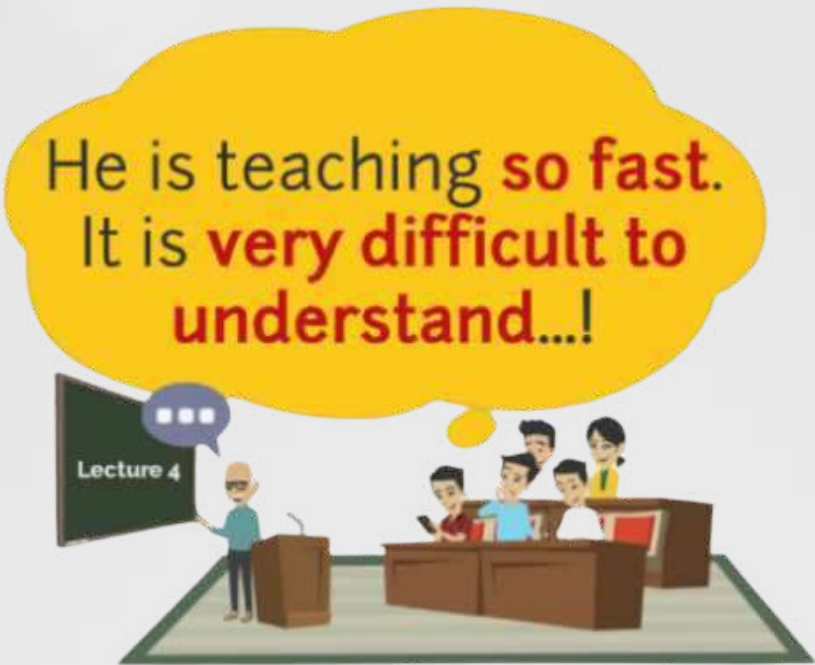
Offline

Online

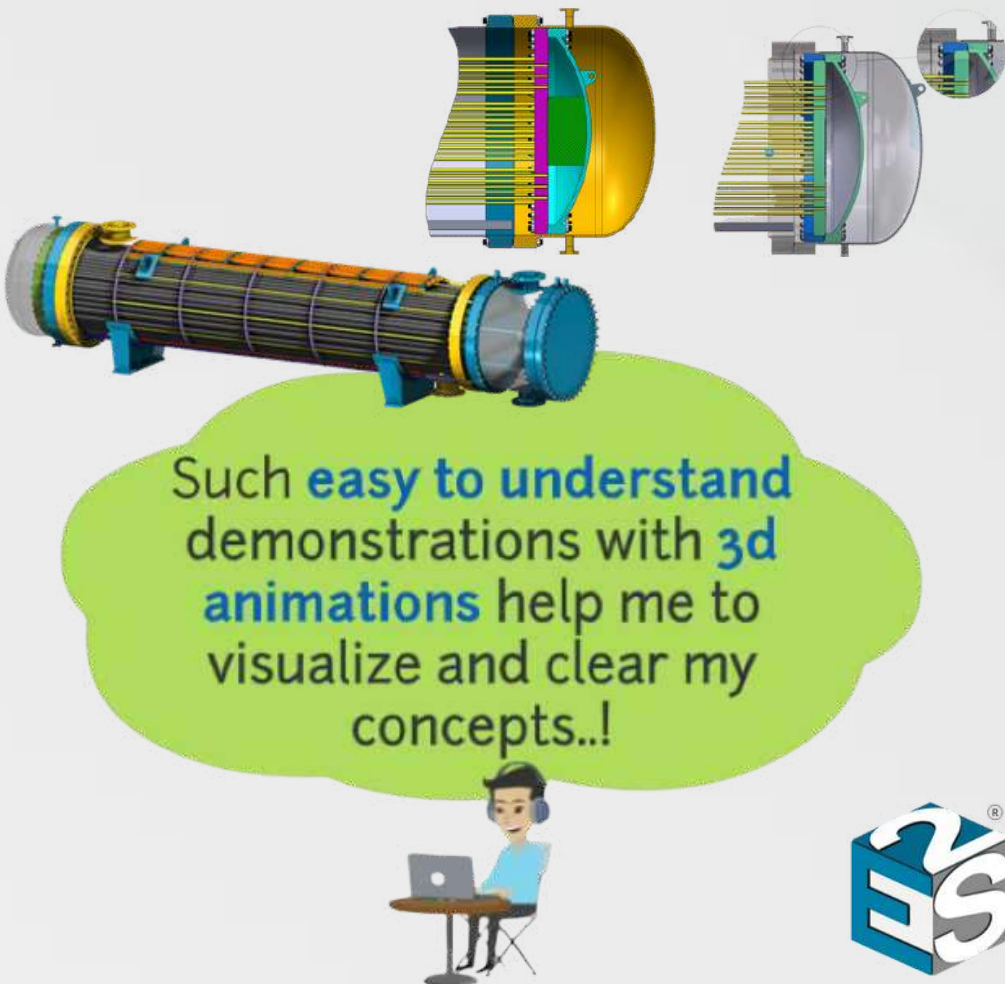
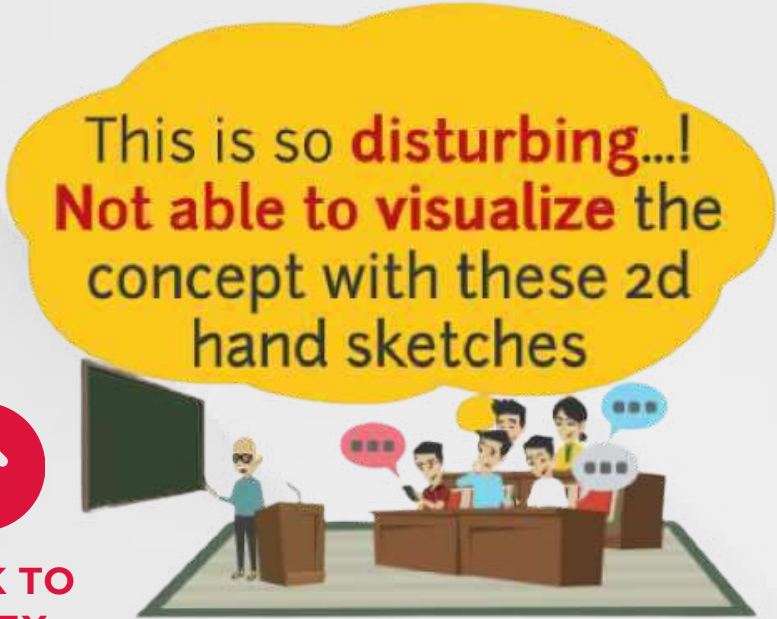
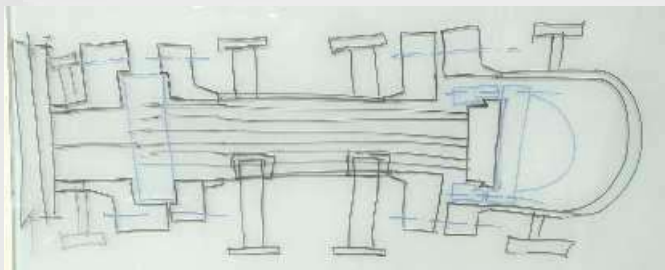
Never Miss Out On Any Lectures



Learn At Your Own Pace



No Disturbances | Video Lectures | Animations



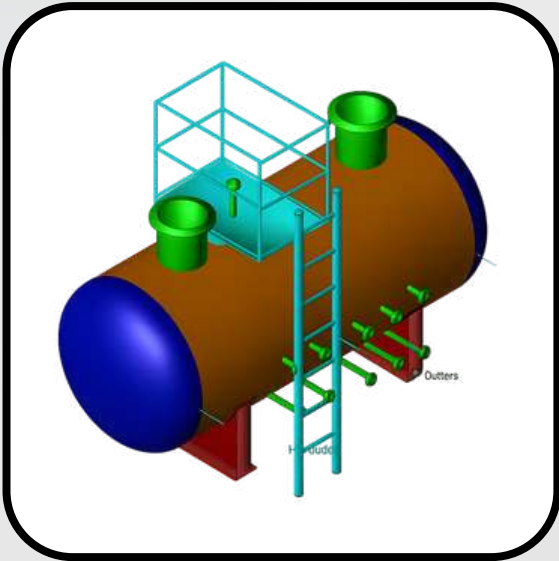
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Our Other Courses



Static Equipment Design



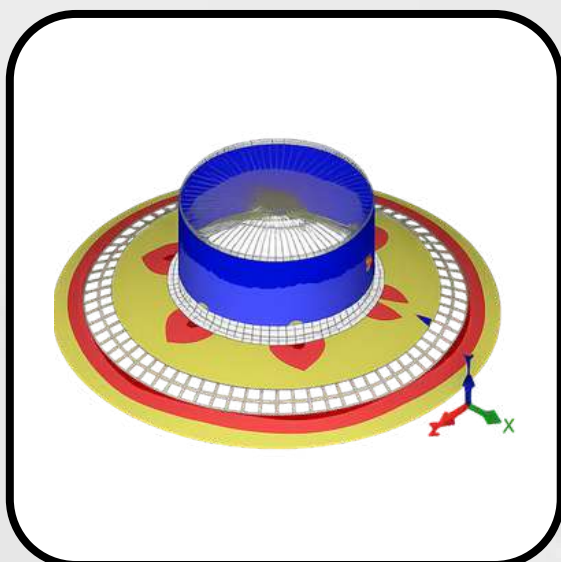
PRESSURE VESSEL
DESIGN (DIV 1)



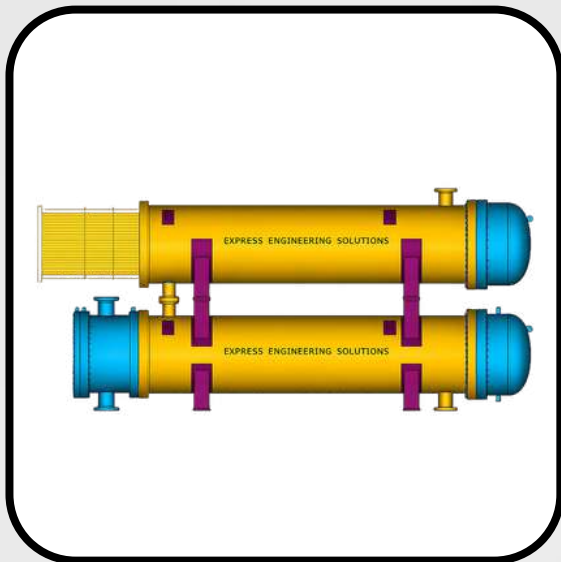
PRESSURE VESSEL
DESIGN (DIV 2)



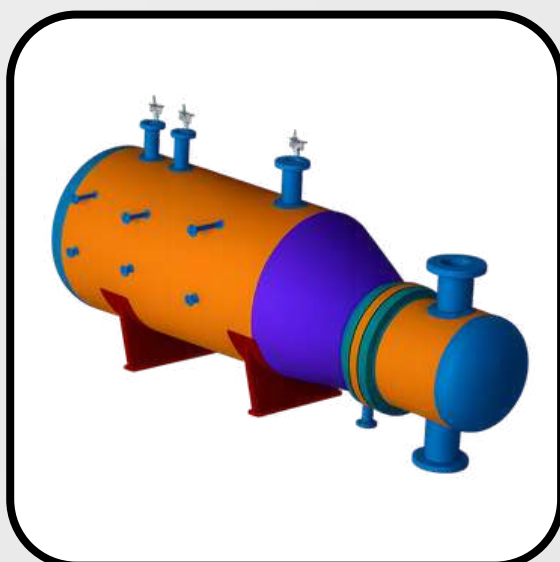
PREMIUM COMBO



NOZZLE PRO FEA



HEAT EXCHANGER
DESIGN



PV ELITE
SOFTWARE



DIV 1 & DIV 2
COMBO



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Our Other Courses



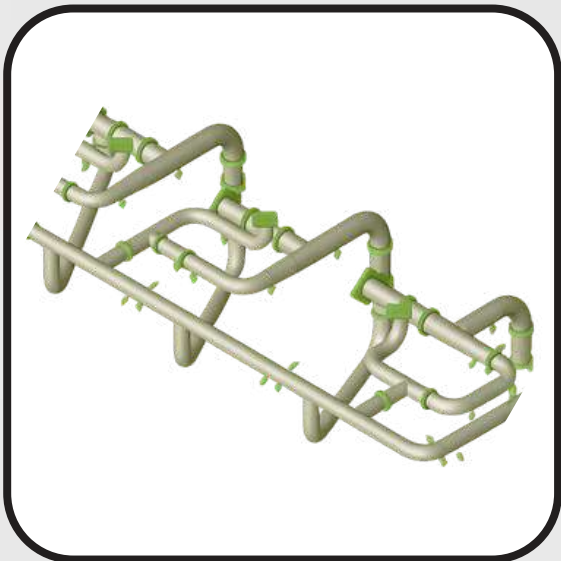
ASME Authorized Course



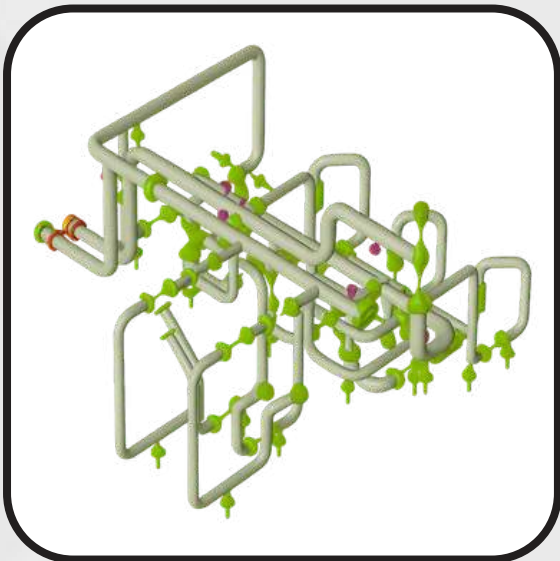
ASME PD442 



Pipe Stress Analysis



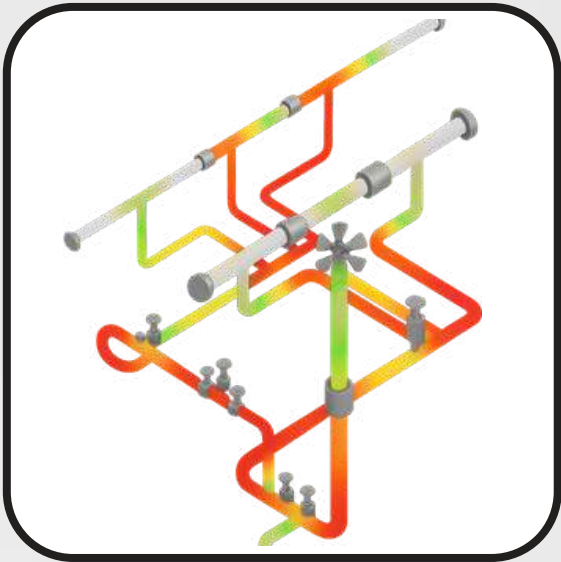
BASIC PIPE
STRESS
ANALYSIS 



ADVANCE PIPE
STRESS
ANALYSIS 



BURIED
PIPELINE STRESS
ANALYSIS 



COMBO PIPING &
PIPELINE STRESS
ANALYSIS 

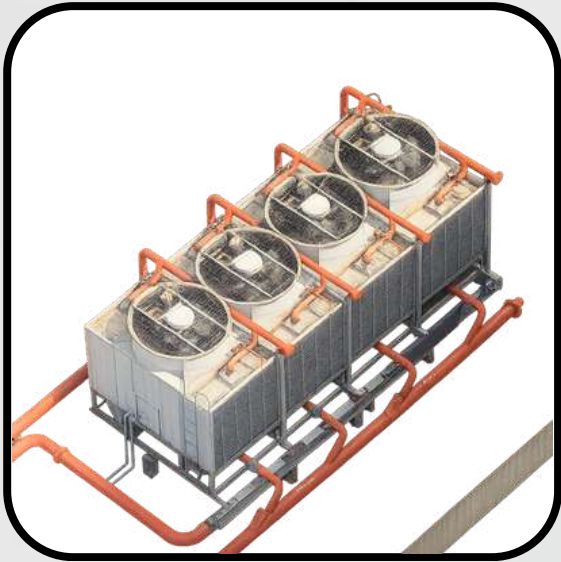


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Our Other Courses

Thermal Design



**AIR-COOLED
HEAT EXCHANGER
(ACHE)** 



**SHELL & TUBE
HEAT EXCHANGER
(STHE)** 

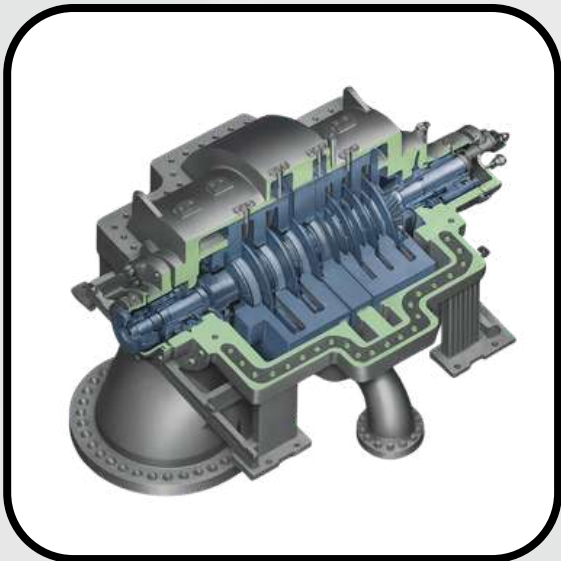


**THERMAL DESIGN
COMBO
(STHE & ACHE)** 

Our Other Courses



Rotary Equipment Design



**CENTRIFUGAL
COMPRESSOR** 



**CENTRIFUGAL PUMPS
IN OIL & GAS
INDUSTRY** 



**ROTARY EQUIPMENT DESIGN
COMBO** 



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Our Other Courses



Other Courses



MS EXCEL 



GD&T (BASIC) 



GD&T (ADVANCE) 

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Bridge, Karvenagar, Pune - 411 052



SURAT

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Near Gaurav Path Road, Palanpore,
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