EXPRESS
ENGINEERING
SOLUTIONS

ASME SEC VIII DIV 1 & DIV 2

PRESSURE VESSEL DESIGN

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CLICK THE TOPICS FOR DETAILS

Course Content

1 ASME SEC VIII DIV 1 (84 hrs)

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3	External Pressure Calculations	7
4	Nozzle Design	12
5	Flange Design	12
6	PWHT & PHFT	5
7	Impact Testing	5
8	Lifting Lug Design	2
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10	Wind , Seismic & Combine Loading	9
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12	All weld figures	4
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ASME SEC VIII DIV 1

1 Introduction (6 hrs)

- Understanding ASME BPV Code.
- Structure of ASME Section VIII Div-1.
- Thin cylinder stress derivations.
- Important Code definitions.
- ASME Section VIII div-1 - Scope and Limitations.
- Types of Loadings on Pressure Vessel (UG-22).
- Important Properties of Pressure Vessel materials.
- Introduction to UG-23 and ASME Section II Part D, Factor of Safety.
- Table U-3: Year of acceptable Edition of referenced
- Standards in this Division.
- Categories of Weld Joints.
- Joint Efficiency and Table UW-12 understanding.

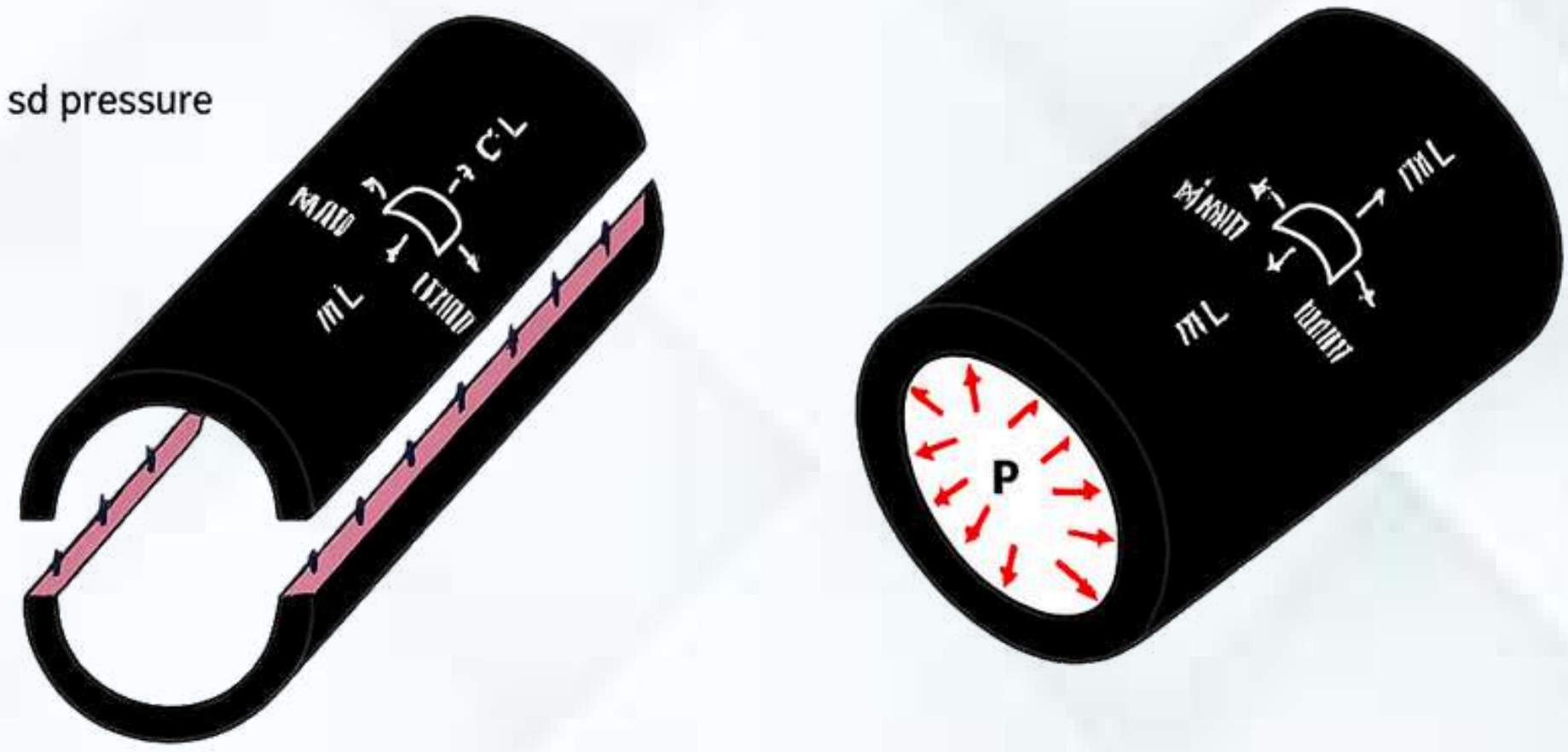
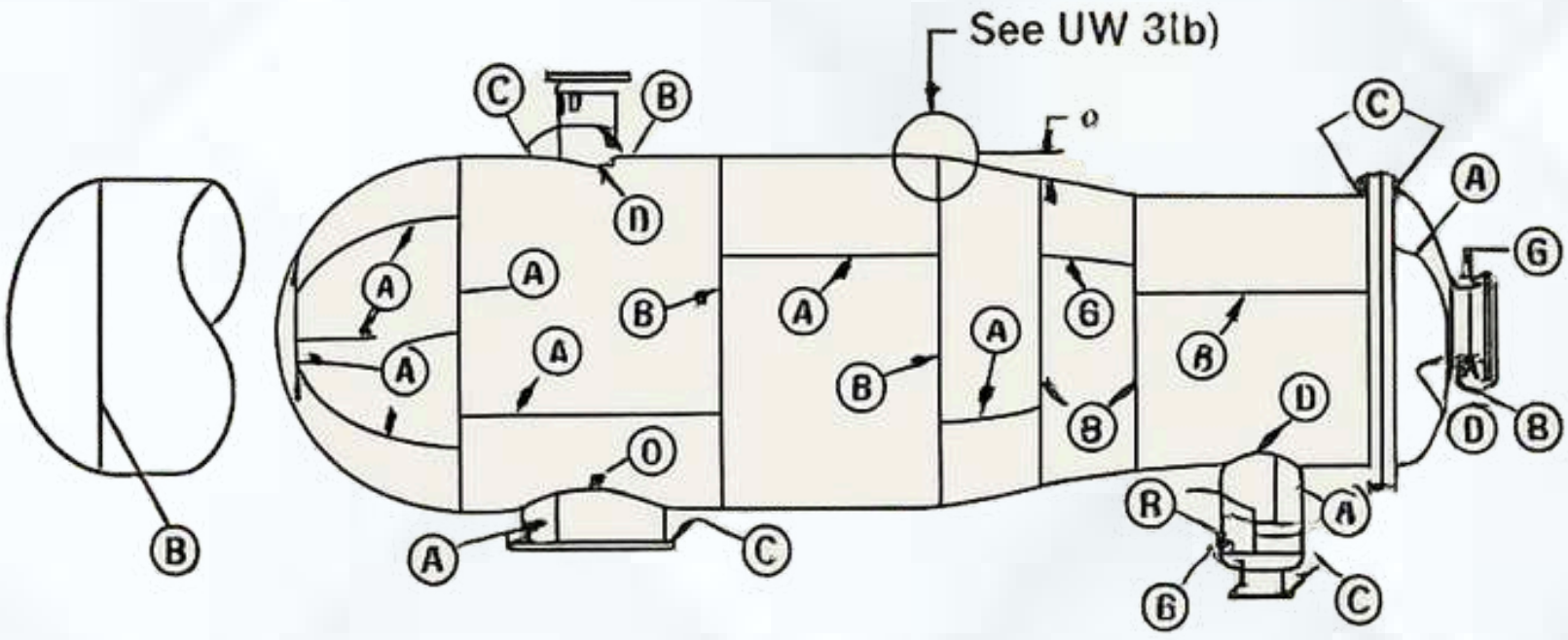


Figure UW-3
Illustration of Welded Joint Locations Typical of Categaries A, B, C, and D



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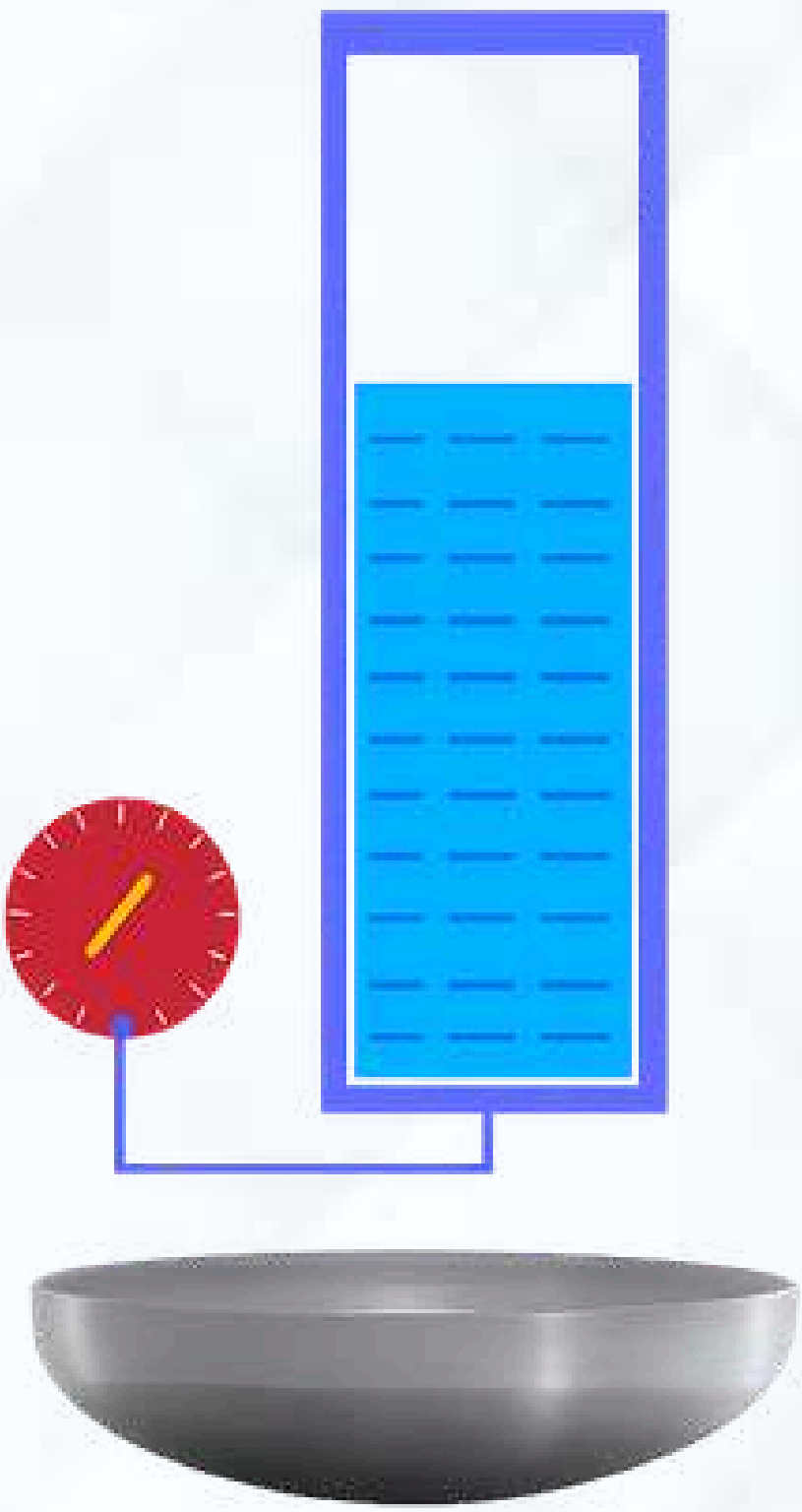
ASME SEC VIII DIV 1

2 Internal Pressure Calculations (7 hrs)

- Joint Efficiency and Table UW-12 understanding.
- Concept of MAWP.
- Liquid Static head calculations.
- Mill Tolerances- UG-16.
- Units and Conversion.
- Thickness calculation for internal pressure for
  - Cylindrical shell
  - Spherical and Hemispherical shell
  - Conical shell
  - Torispherical dished end
  - Ellipsoidal dished end
  - Flat Head Thickness calculation



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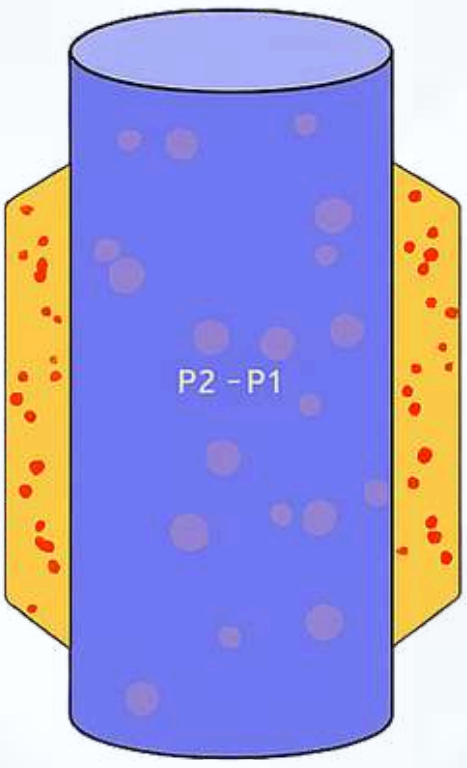
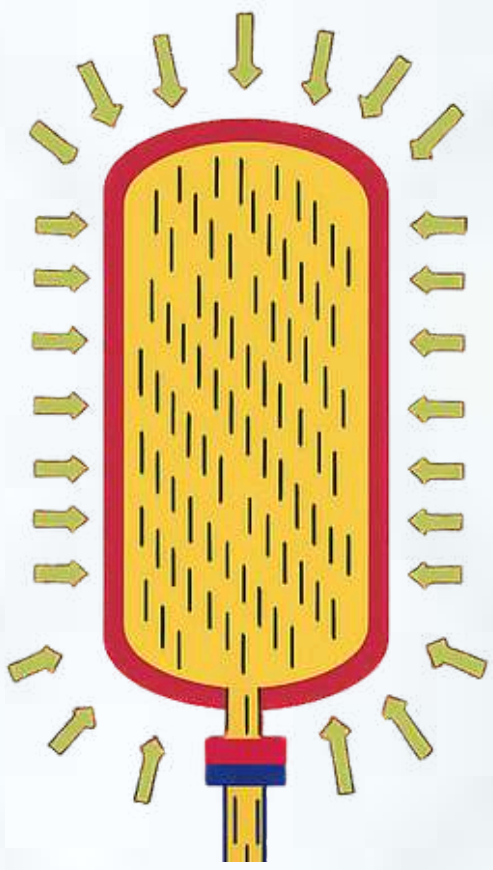
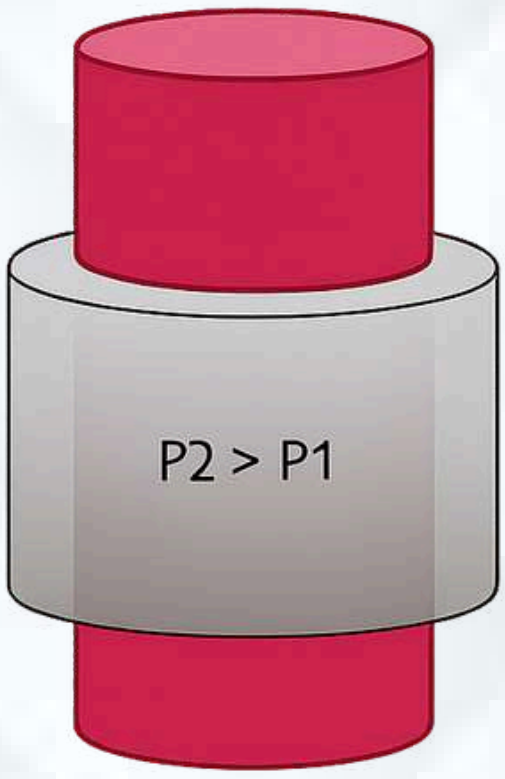
ASME SEC VIII DIV 1

3 External Pressure Calculations (7 hrs)

- Failures caused by External Pressure & Concept of External Pressure.
- How external pressure works?
- Line of support concept.
- Significance of L/Do and Do/t ratios.
- Cylindrical shell, Spherical shell.
- Thickness calculation procedures for External pressure
  - Graphical method
  - Tabular Method
  - Thickness calculation for External pressure
  - Cylindrical shell, Thickness reduction by using stiffeners
  - Spherical and Hemispherical shell
  - Conical shell
  - Torispherical dished end
  - Ellipsoidal dished end
  - Flat Head Thickness calculations
- Concept of Stiffener design for external pressure.
  - -Procedure for Stiffener design for external pressure
  - -Moment of inertia calculations for various stiffener cross sections
  - -Manual calculations of stiffener sizing







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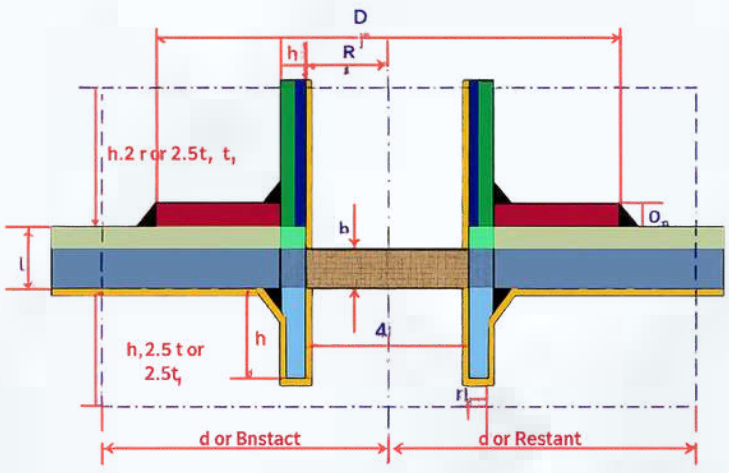
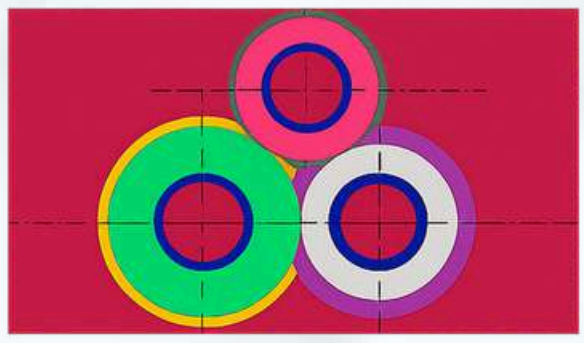
4 Nozzle Design (12 hrs)

- Types of Nozzles.
- Nozzle neck thickness calculation criteria.
- Nozzle neck thickness calculation as per UG45 theory & manual problem.
- Openings in Pressure Vessel as per UG-36.
- Understanding the Reinforcement of Multiple openings.
- Shape of opening.
- Openings in end closures.
- Strength and Design of finished opening.
- Small opening criteria for cylinder, cones & Flat Heads.
- Concept of reinforcement for Cylindrical & conical shell
  - For normal opening other than large opening- As per UG-37.
  -Reinforcement for large opening- As per UG-37, & 1-7
- Concept of reinforcement for Dished Ends
  -Reinforcement for all openings - As per UG-37
- Concept of reinforcement requirements in Flat Heads
  -Reinforcement for normal opening other than large opening as per UG-39.
  -Reinforcement for central large opening- As per Mandatory Appendix -14
- Understanding of Concept- As per UG-37- for Set in nozzles.
- Understanding of Concept- As per UG-37- for Set on nozzles.
- Manual problem solving for Set in Nozzle.
- Concept of multiple openings criteria for Vessels.
- Manual Problem solving for Set on Nozzle.
- Manual Problem solving for multiple openings.
- Manual Problem solving for openings in Flat head as per UG-39(b).
- Manual Problem solving for openings in Flat head as per UG-39(d) alternative method.





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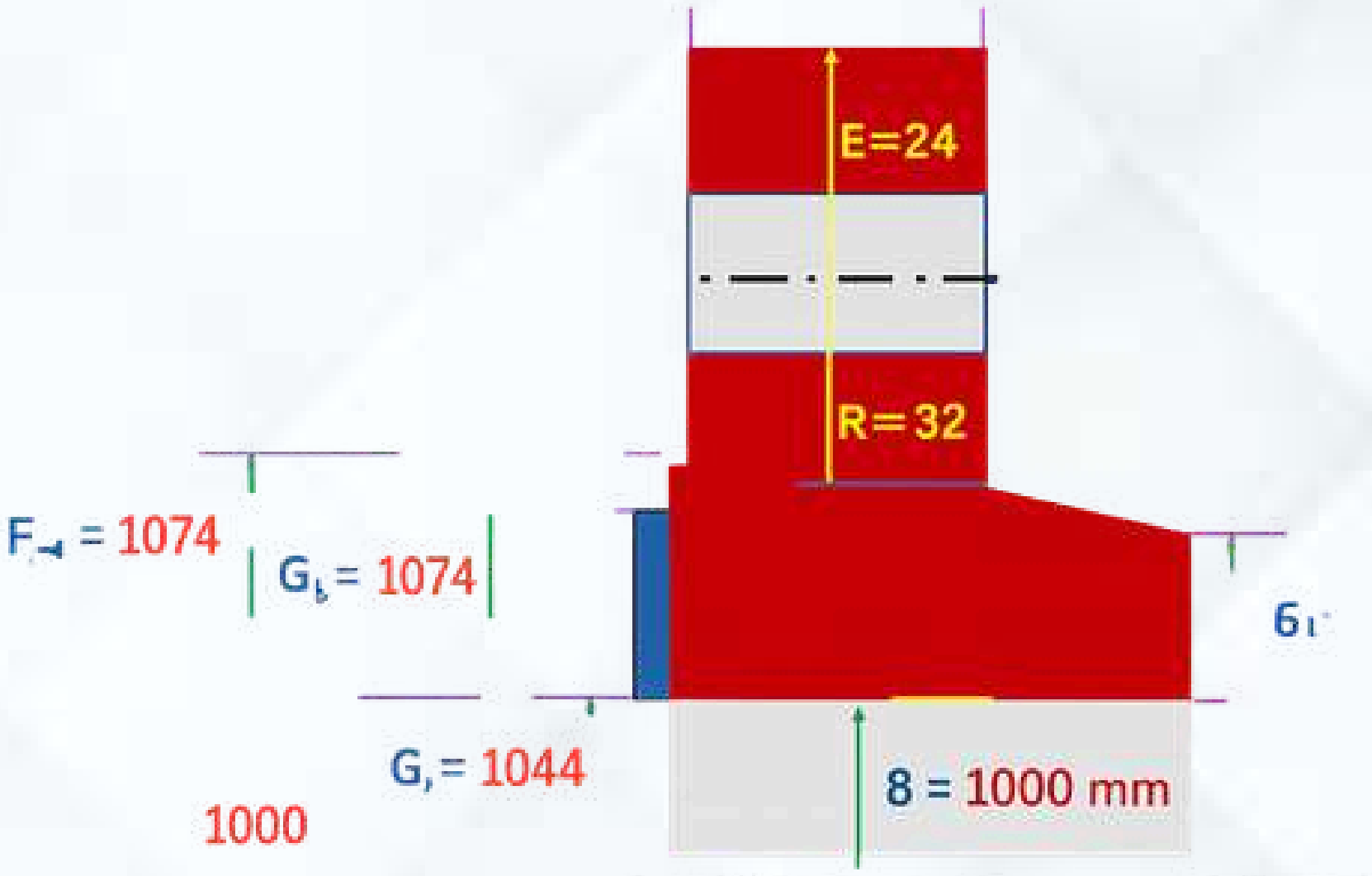
ASME SEC VIII DIV 1

5 Flange Design (12 hrs)

- Types of Flanges as per its application.
- Selection of Standard Flanges.
- Scope Of Mandatory Appendix-2.
- Type of Flanges as per Mandatory Appendix-2.
- Flange design concept & steps as per Mandatory Appendix -2.
- Defining Flange Geometry for Integral flange.
- Defining Flange Geometry for Loose ring & optional type.
- Blind Flange Design concept.
- Manual Problem for Integral Flange.
- Manual Problem for Loose ring Flange.
- Blind Flange Design calculations & finding deflection as per TEMA.
- Rectangular Flange Design as per PD-5500.



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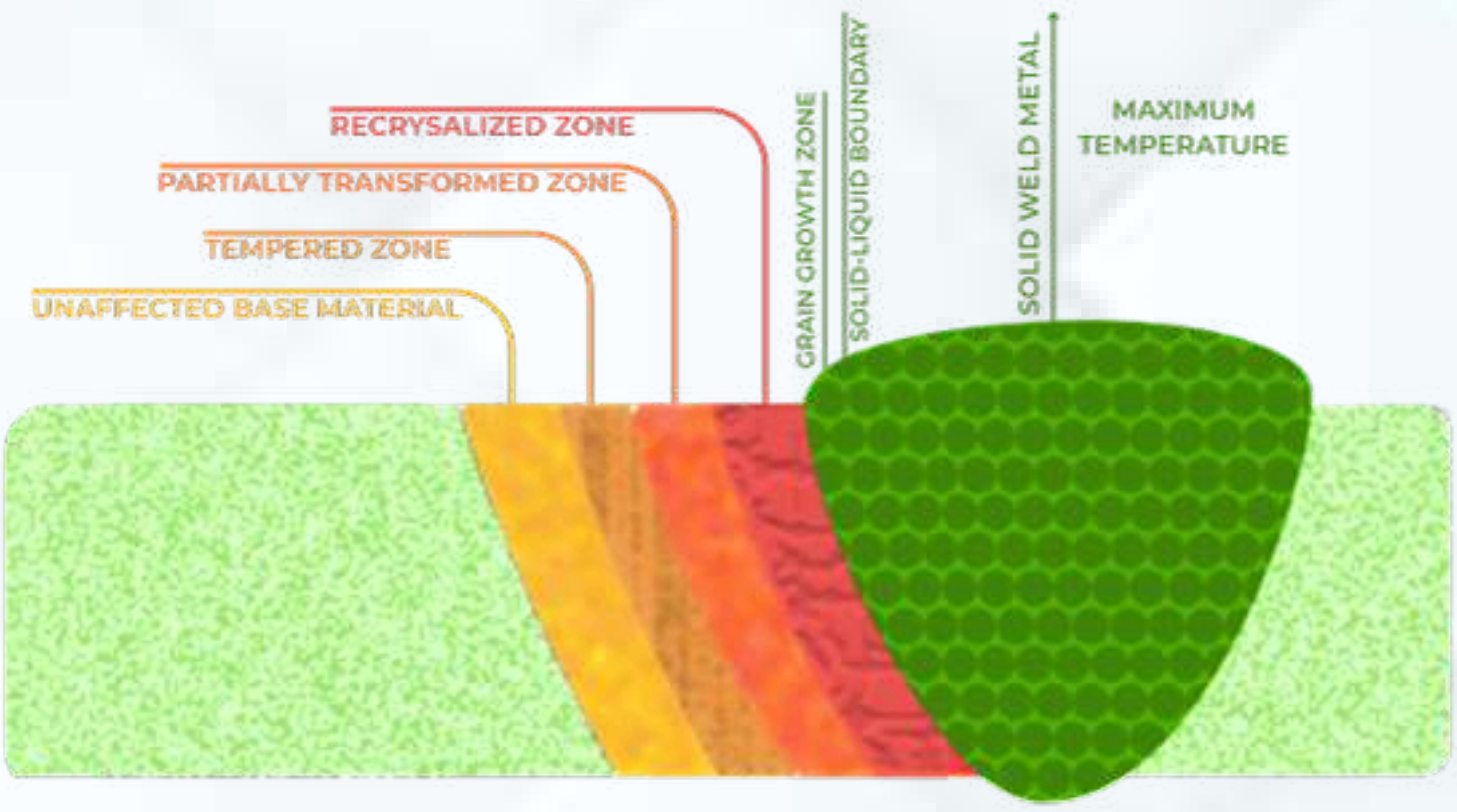
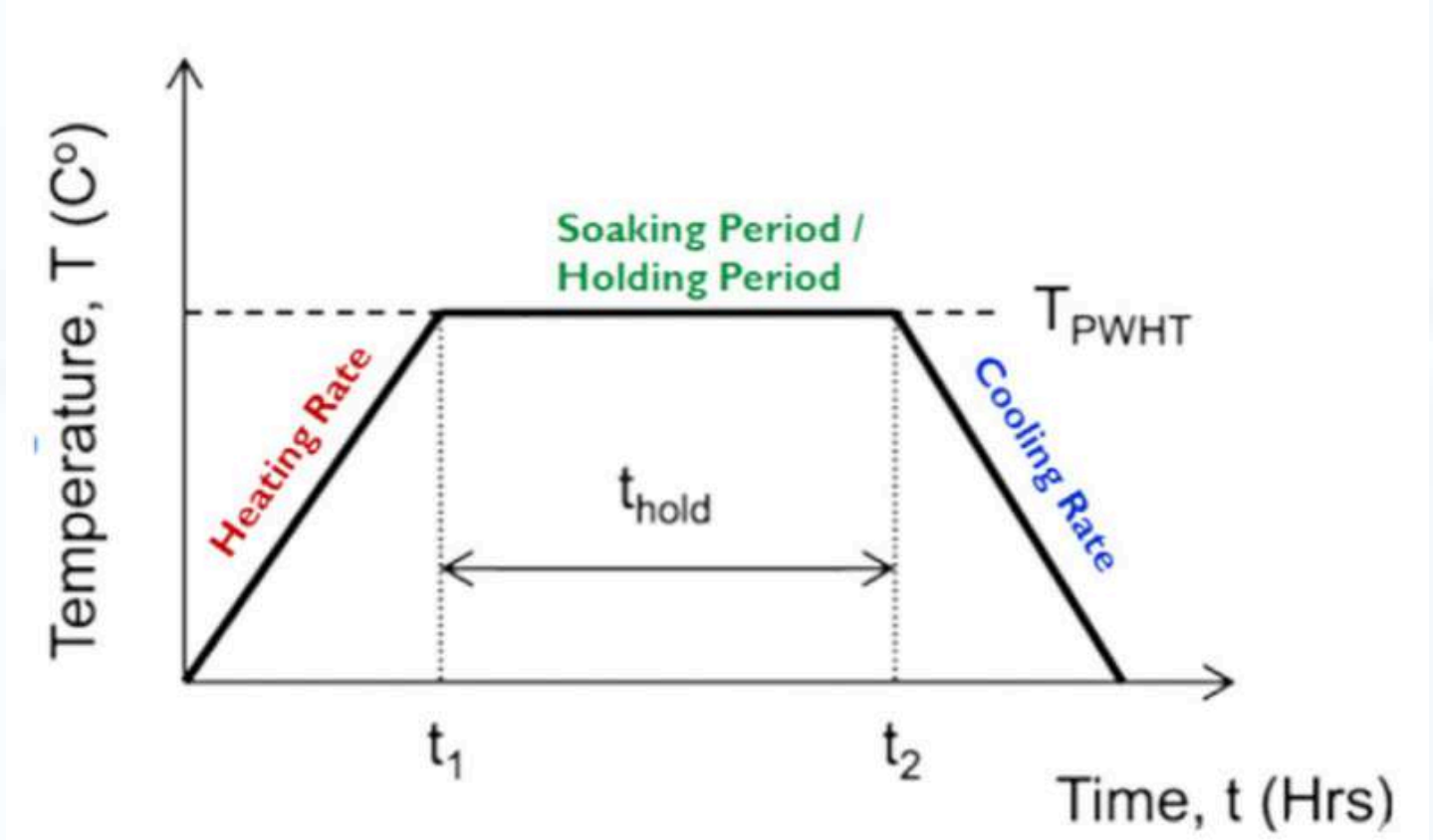
ASME SEC VIII DIV 1

6 PWHT & PHFT (5 hrs)

- Welding Procedure understanding.
- HAZ and Residual stress understanding.
- How stress relieving works?
- Understanding the need and significance of PWHT (UCS-56).
- PWHT exemption requirements in ASME codes.
- Procedures and methods for PWHT.
- PFHT requirements of code.
- Procedures for PFHT.
- Heating / cooling rates.
- Manual problems solving for PWHT & PFHT calculations.





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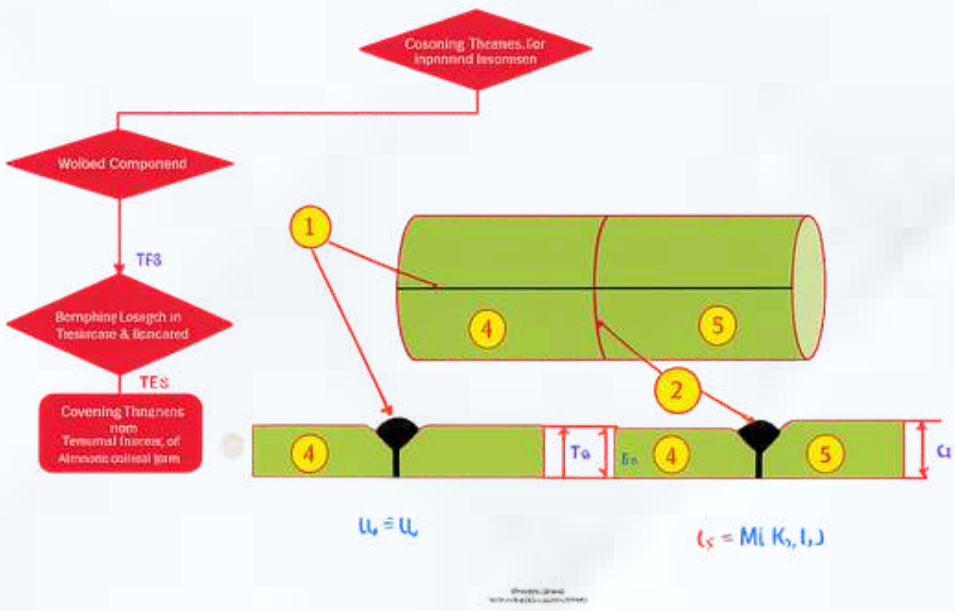
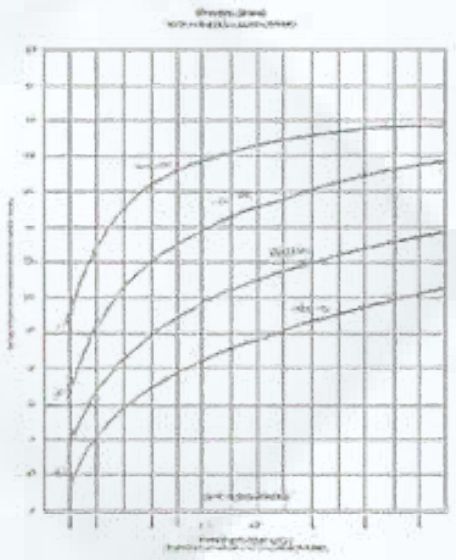
7 Impact Testing (5 hrs)

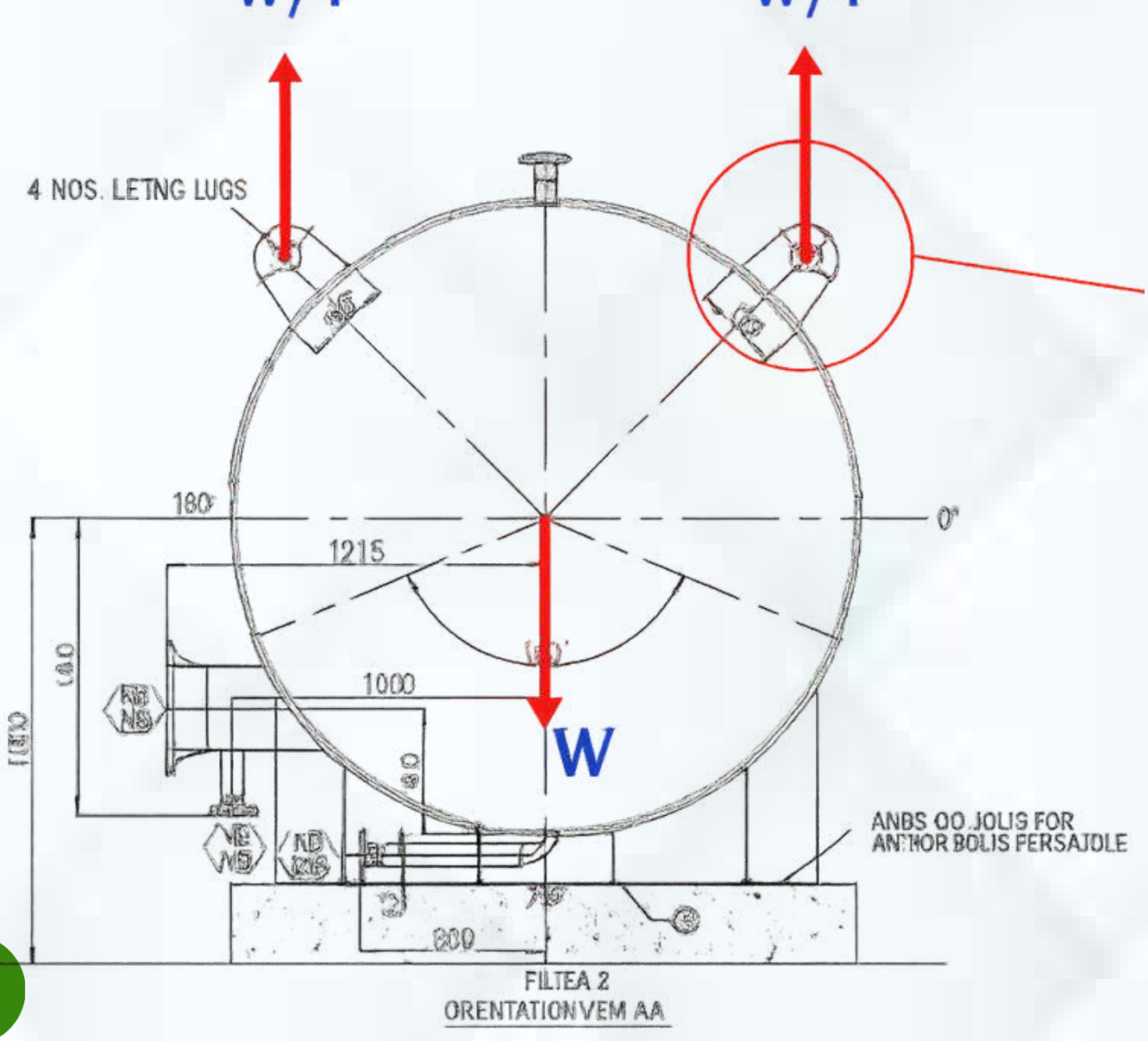
- Low temperature working of different material.
- Governing thickness concept for impact testing.
- Understanding Impact test requirement.
- Impact test code exemptions.
- Impact test acceptance criteria.
- Material Thickness criteria for impact test.
- Impact test exemption curves.
- Manual Problem solving for Impact testing requirement.





8 Lifting Lug Design (2 hrs)

- Lifting Lug Design.
- Lifting Lug Design in PV elite.



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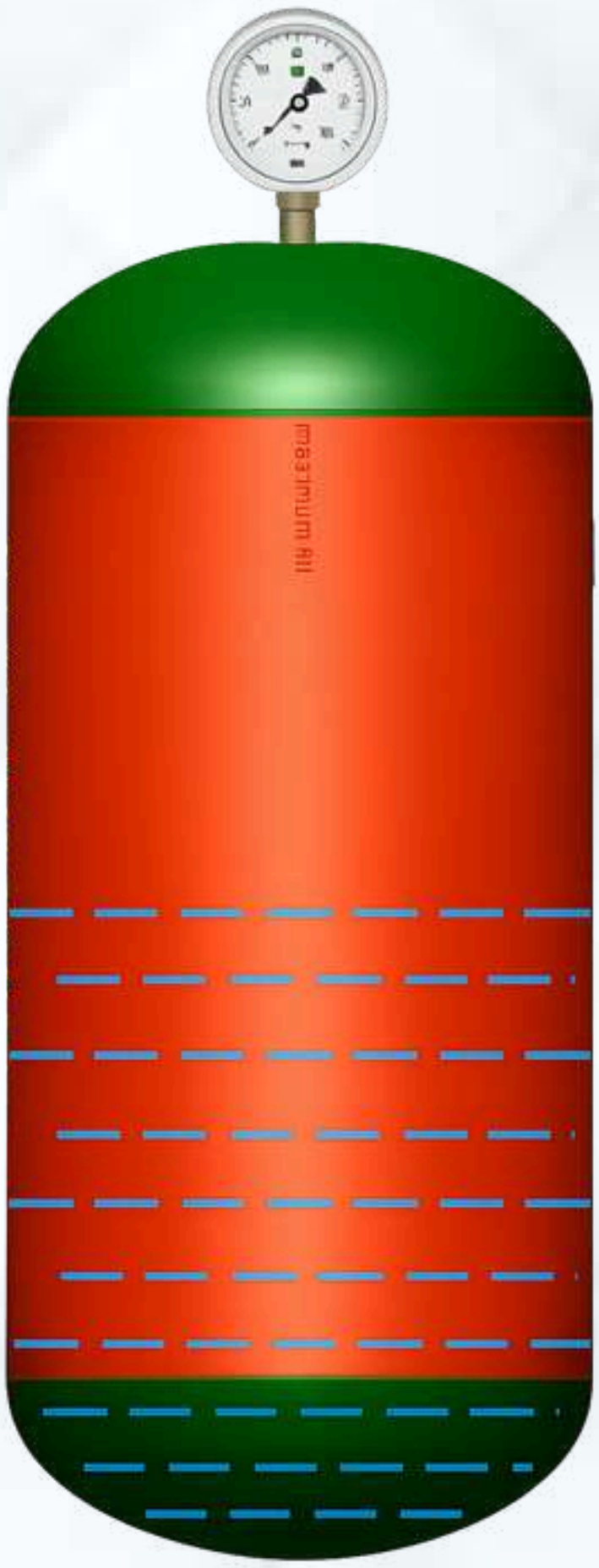
9 Hydrostatic Test, Pneumatic Test Requirements Of Code (4 hrs)

- Pressure Testing requirements.
- Important definitions- MAWP, LSR, Calculated Test pressure.
- Hydrostatic Test requirement & significance.
- Hydrostatic Test procedure & Code requirements.
- Pneumatic Test requirement & significance.
- Pneumatic Test procedure & Code requirements.
- Calculating Test pressures, inspection pressures.
- Understanding pressurization stages, Test temperatures, & Test time significance.
- Proof Tests to establish maximum allowable working pressure.
- Manual Problem solving & PV Elite hydrotest calculations.



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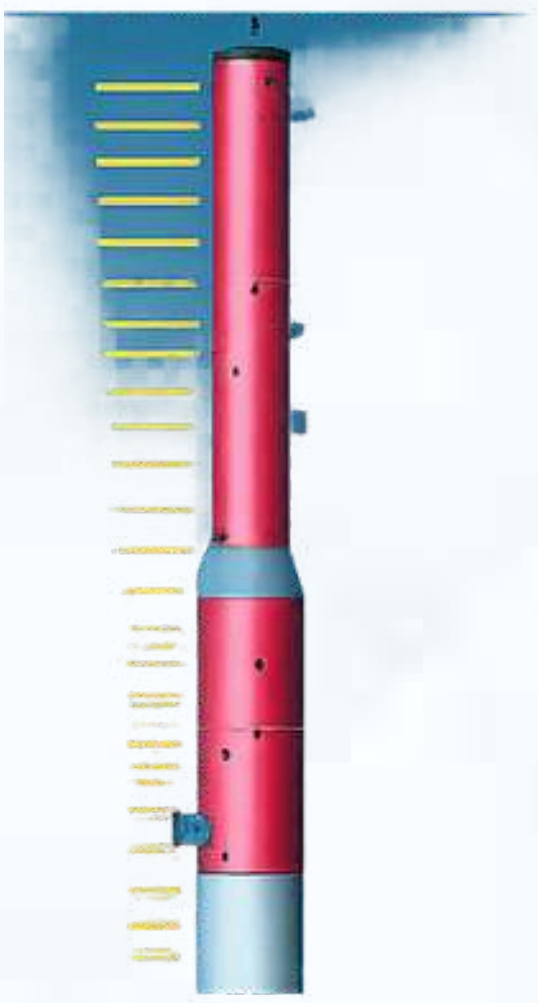
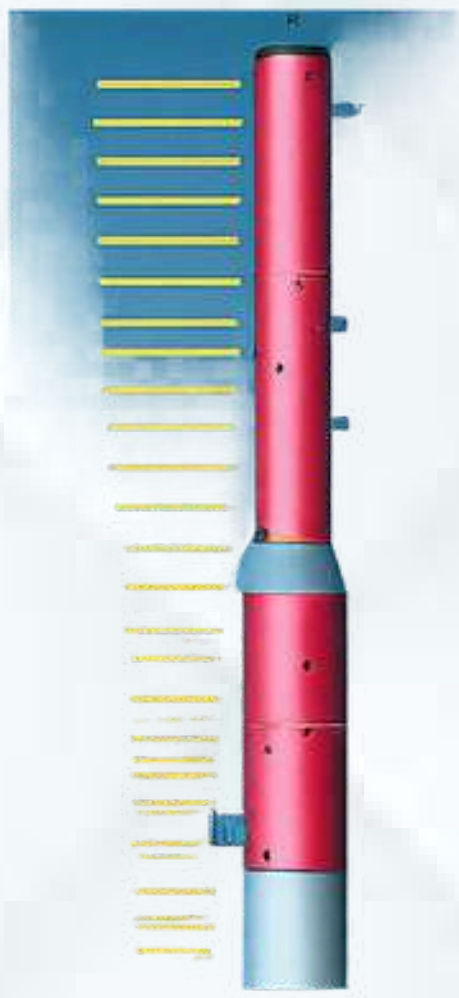
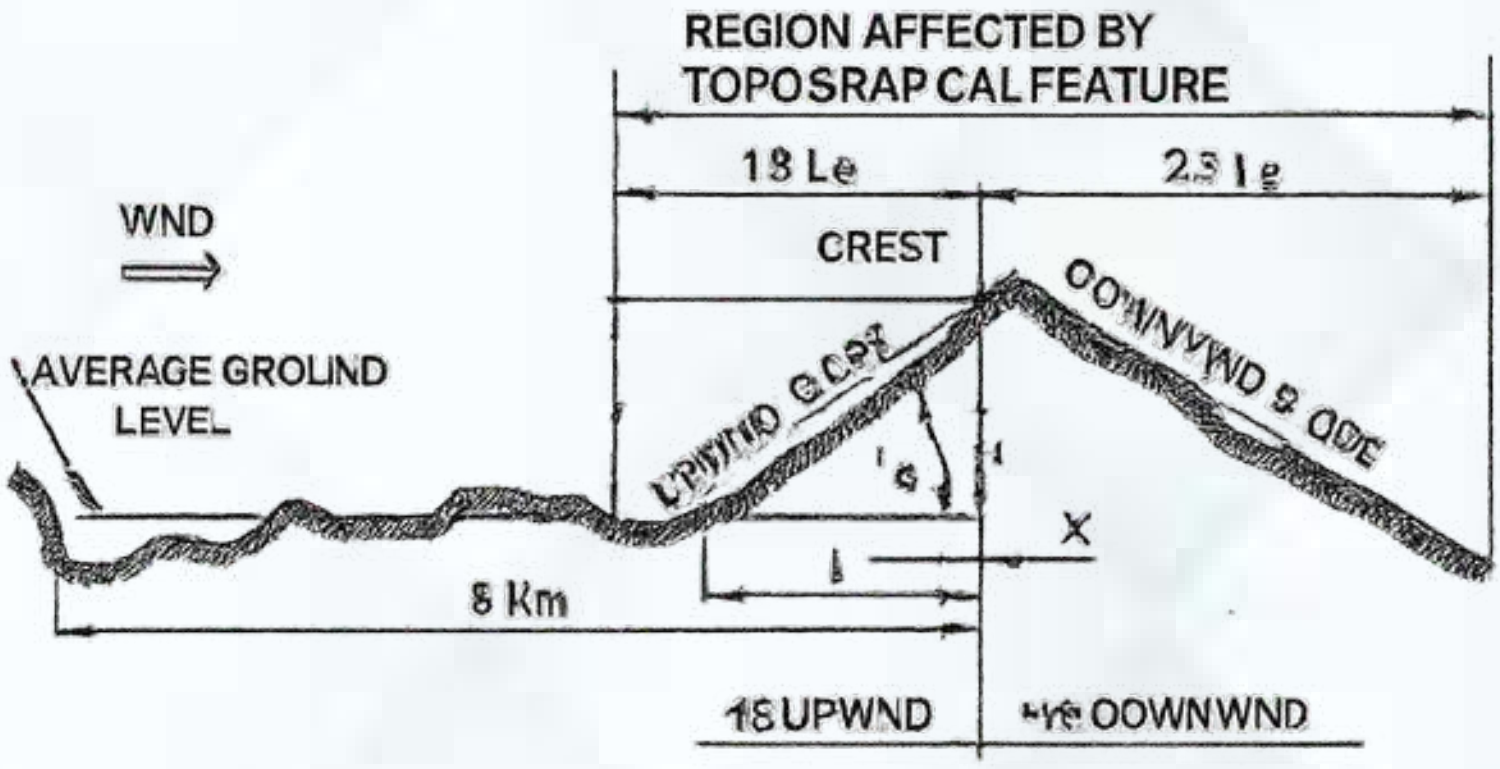
10 Wind , Seismic & Combine Loading (9 hrs)

- Understanding Concept of Wind load.
- Calculation of wind load as per IS 875.
- Understanding concept Of Seismic load.
- Calculation of seismic load as per IS 1893.
- Concept of Combined Loading.
- Manual Problem Solving for seismic Load + PV Elite calculations.
- Manual Problem Solving for wind Load + PV Elite calculations.
- Manual Problem Solving for combined loadings + PV Elite calculations.







13 (4) GENERAL NOTATIONS

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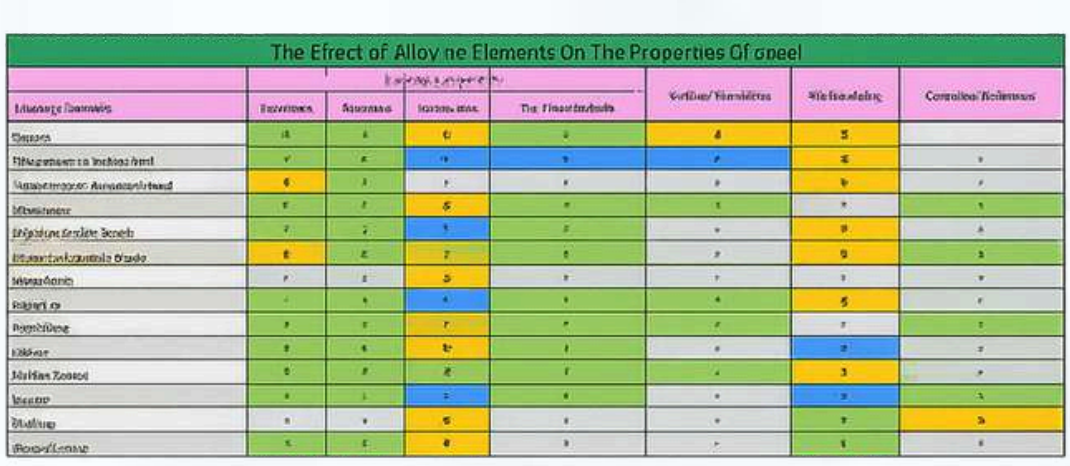
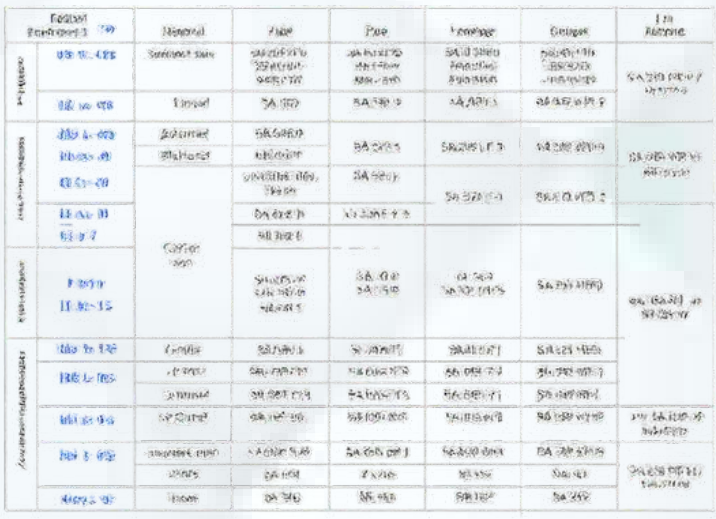
11 Materials (5 hrs)

- Properties of materials.
- Microstructure of materials.
- Types of Corrosion and corrosion Rates.
- Material chemical compositions.
- Effect of alloying elements on material properties.
- Material product forms.
- Material specifications.
- Material selection guide.





12 All Weld Figures (4 hrs)

- Various types of Weld joints.
- Openings near welding UW-14.
- Weld taper transition and gap between welds.

Figure UW-16.1
Some Acceptable Types of Welded Nozzles and Other Connections to Shells, Heads, etc.

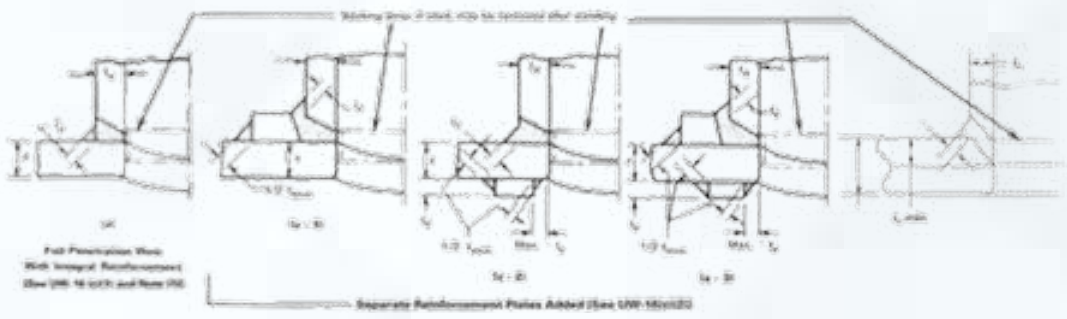
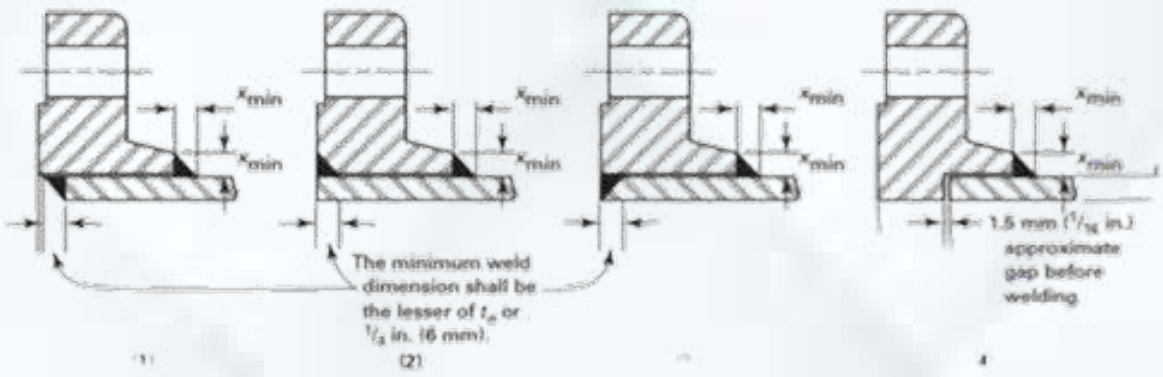


Figure UW-21
Welds of Socket Weld Flanges to Nozzle Necks



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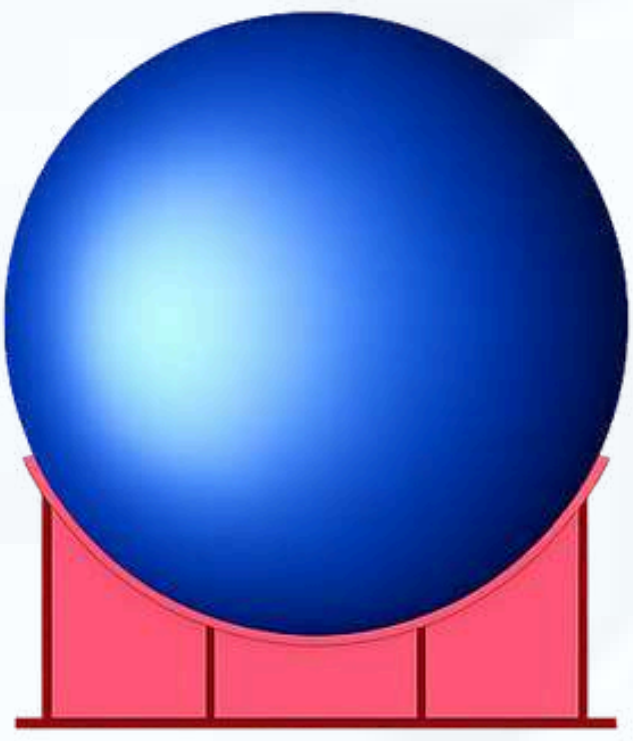
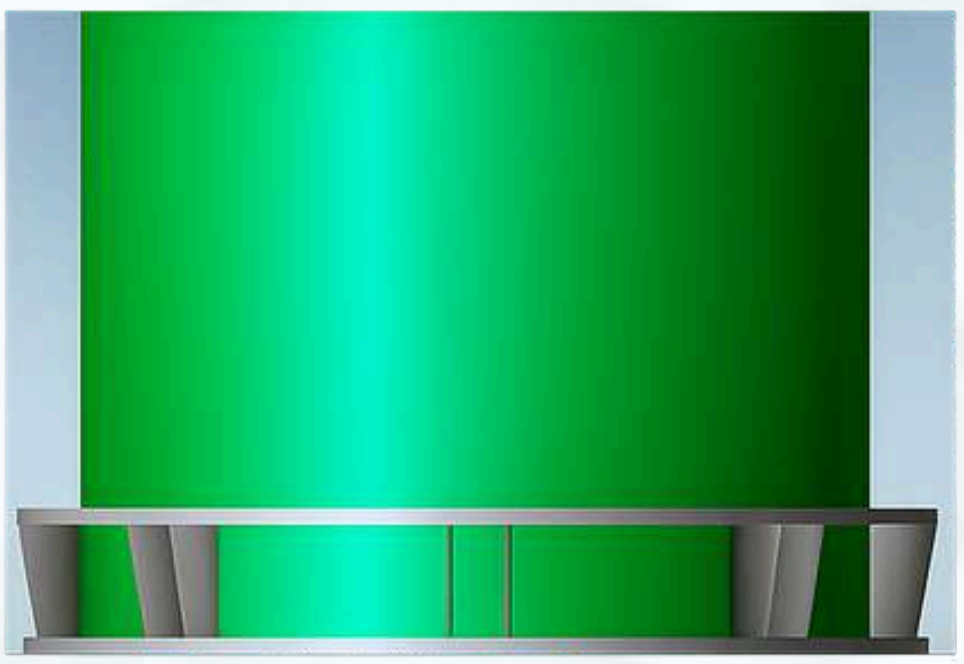
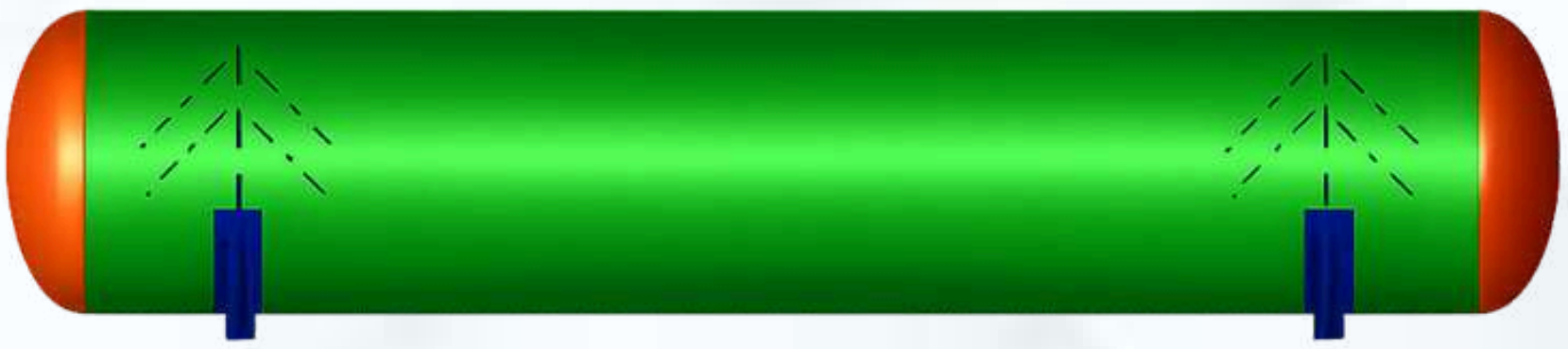
13 Supports (6 hrs)

- Types of Supports.
- Significance of following types of supports
  -Skirt Support
  -Leg Support
  -Lug Support
  -Saddle Support
- Stresses in Vessel due to Saddle Locations.
- Procedure for saddle support location.
- Calculation of stresses in vessel component as per Zick method (Div.2).
- Manual Problem Solving for calculation of stresses i vessel.
- Manual Problem Solving for saddle support design.
- WRC concept and sign conventions.







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2 ASME SEC VIII DIV 2 (84 hrs)

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3	Impact Testing	7
4	Internal Pressure Calculations	12
5	External Pressure Calculations	12
6	Design-By-Rules(part-4)	5
7	Flange Design	5
8	PWHT & PHFT	2
9	Lifting Lug design	4
10	Hydrostatic test, Pneumatic test Requirements of code	9
11	Wind , Seismic and Combine Loading	5
12	Supports	4
13	Fatigue Evaluation	6

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ASME SEC VIII DIV 2

1 Introduction (8 hrs)

- Understanding ASME BPV Code
- Why ASME Section VIII Div-2?
- ASME Section VIII Div-1 Vs ASME Section VIII Div-2 - Key Differences
- 1.1.2 - Structure of ASME Section VIII Div-2
- Annex 1-B - Important code definitions
- 1.1- ASME Section VIII Div-2 - Scope & limitations
- ASME Section VIII Div-2 - Class 1 vs Class 2
- Part 2- The Designer, The Engineer & The Certifying Engineer
- 2.2.3 - User's Design Specifications (UDS) & Manufacturer's Design Report (MDER) - Contents & Certification
- Annex-3A, ASME Section II Part D , Factor of safety
- Table 1.1 : Year of Acceptable Edition of Referenced Standards in This Division
- Figure 4.2.1 - Categories of weld Joints
- Part 7 - Table 7.1 - Joint Efficiency & Examination Group as per

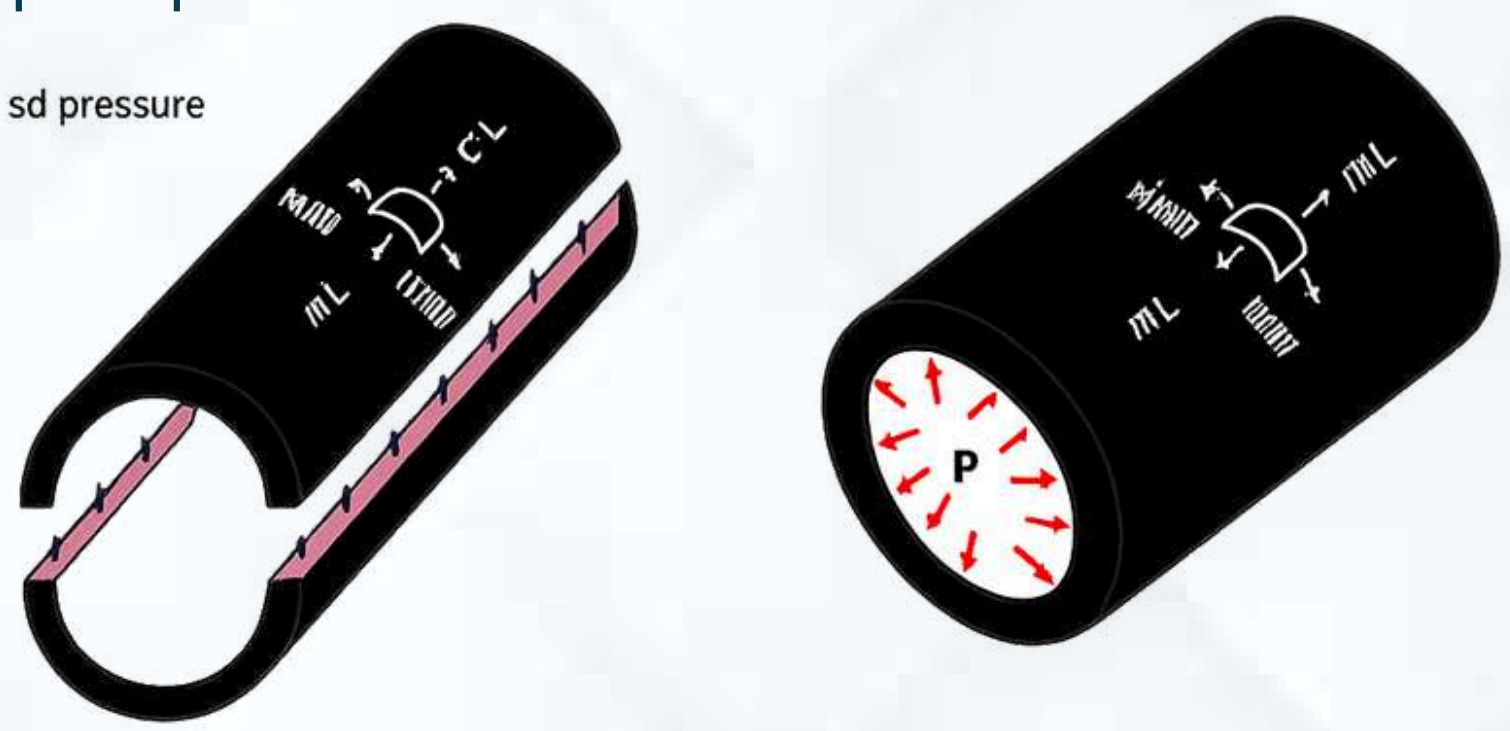
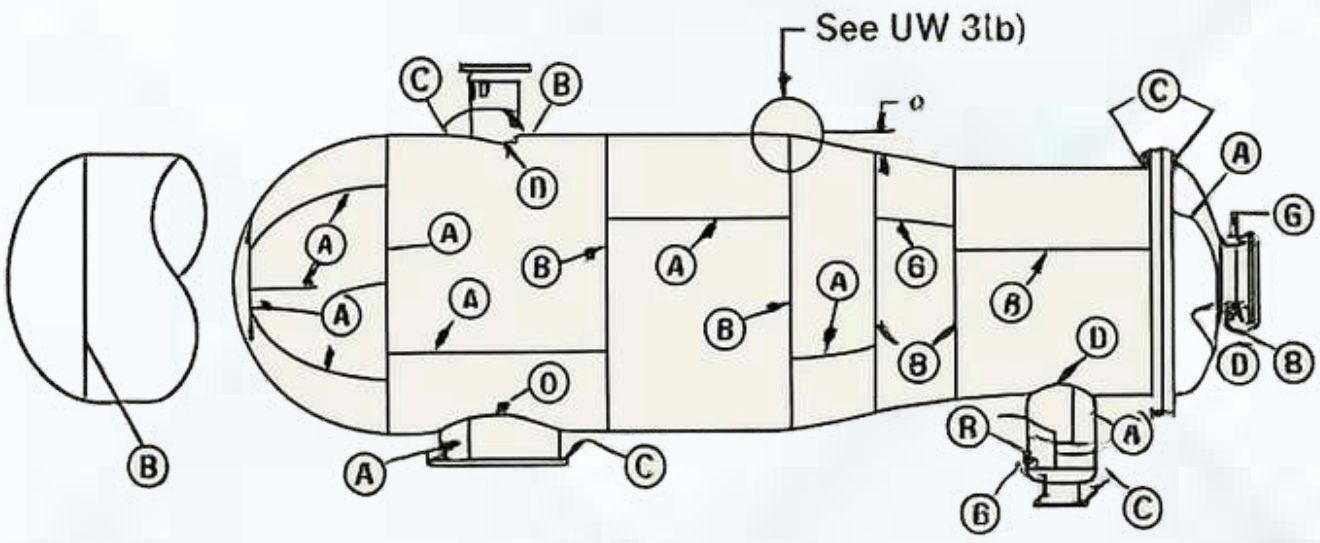


Figure UW-3
Illustration of Welded Joint Locations Typical of Categaries A, B, C, and D



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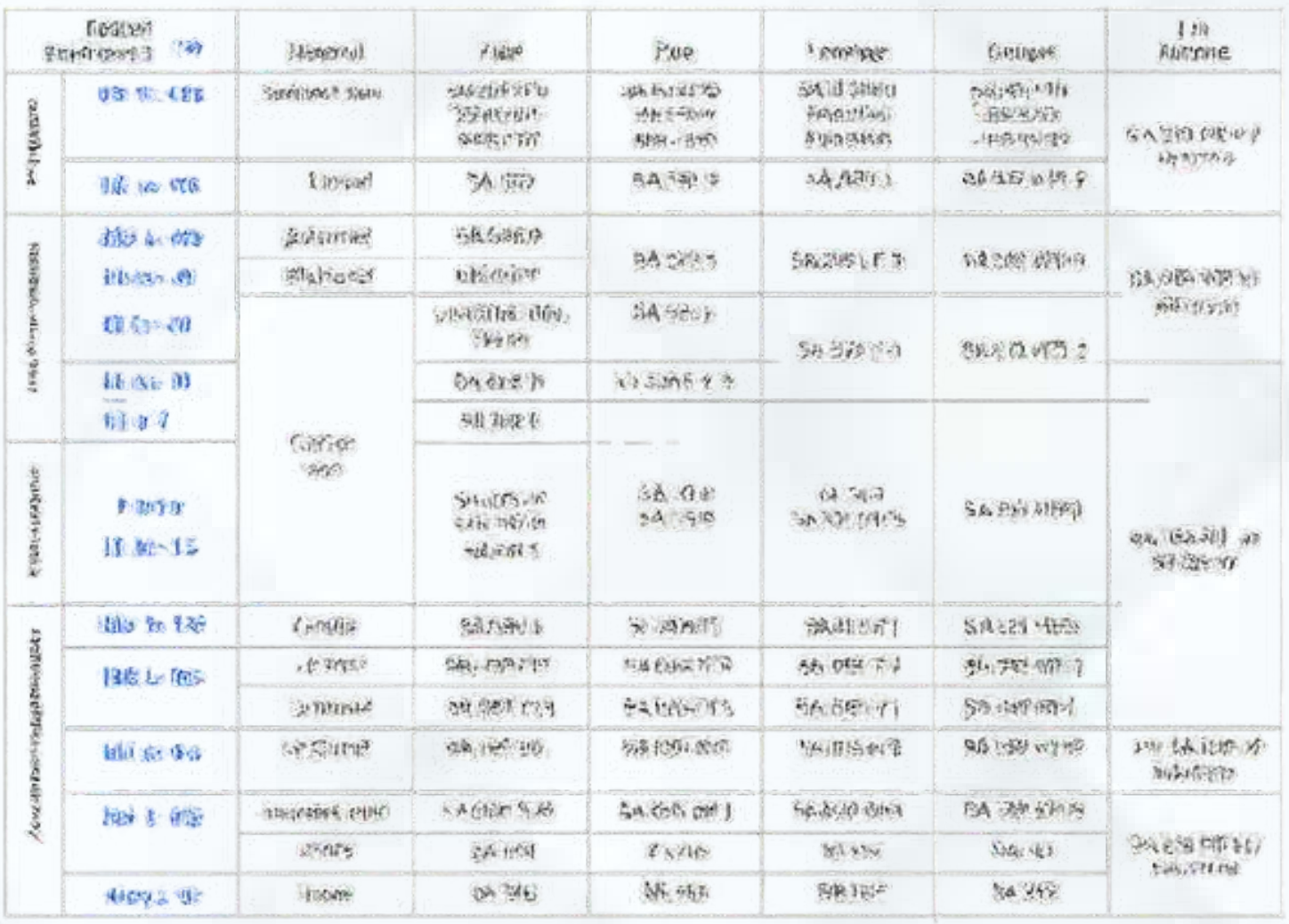
2 Material Requirements (Part-3) (5 hrs)

- 3.2.6 -Material Certification
- 3.3.3 -Ultrasonic Examination
- 3.3.5 -Magnetic Particle/Liquid Penetrant Examination
- 3.7 -Requirements for Bolting Materials
- 3.11 -Impact Test Requirements
- Requirement for Material Test Coupons for Vessels subject to Heat Treatment
    1) Effect of alloying elements on material properties
    2) Material product forms
    3) Material specifications
    4) Material selection guide



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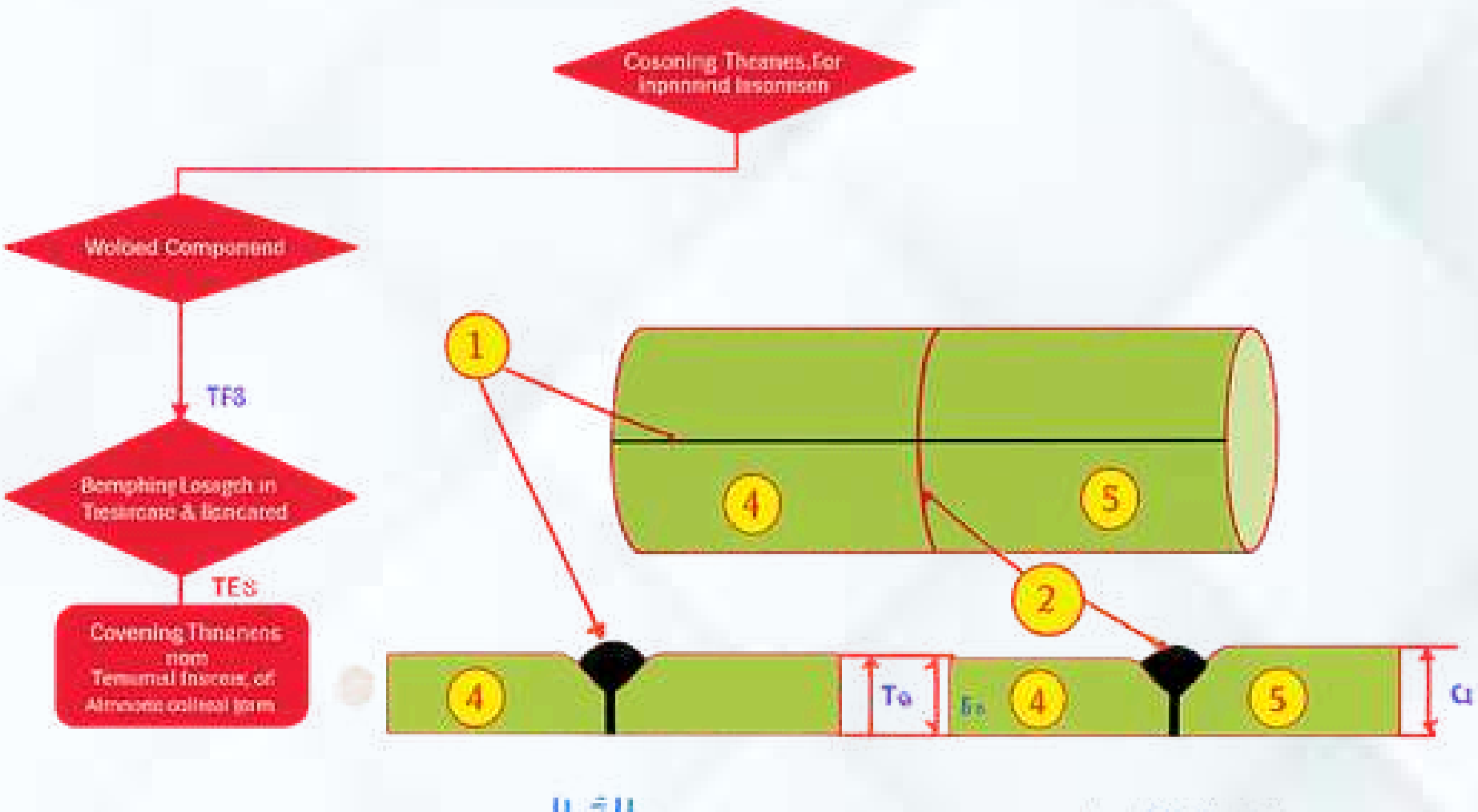
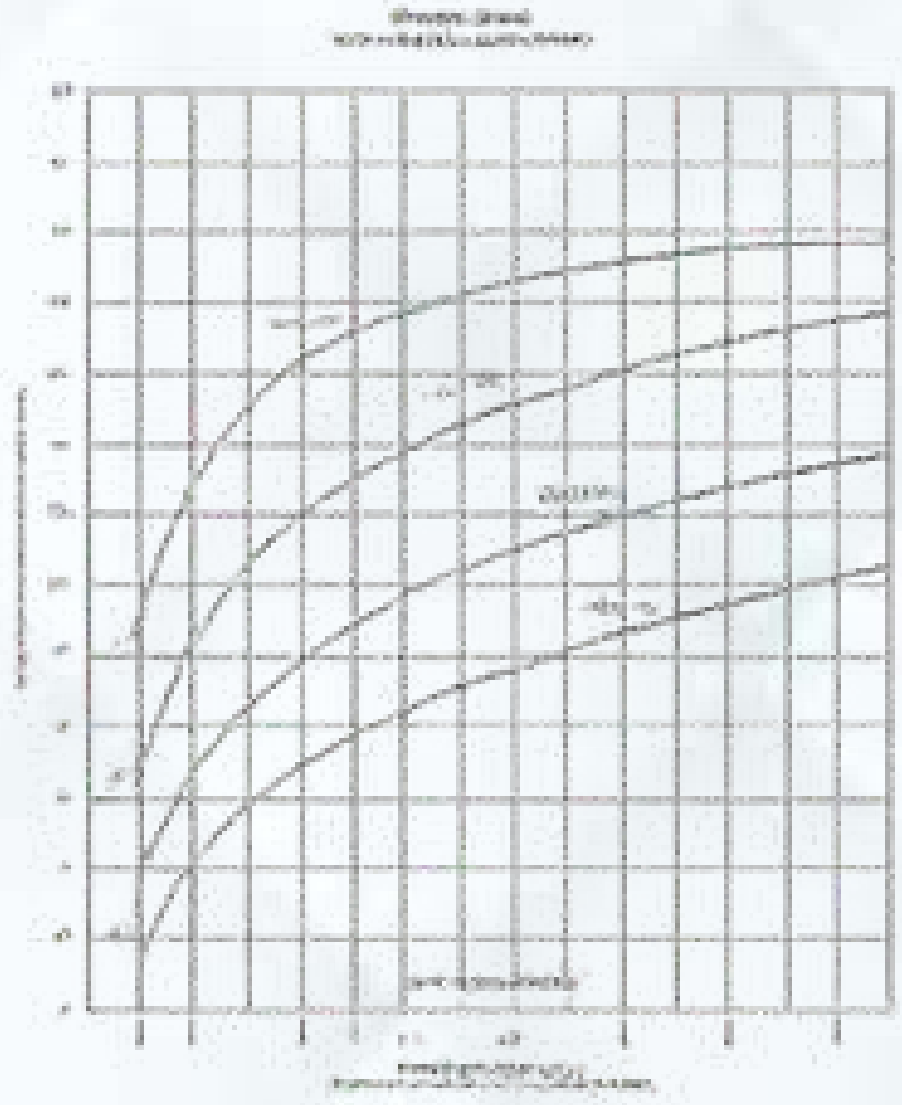
3 Impact Testing (5 hrs)

- Low temperature working of different material.
- Governing thickness concept for impact testing.
- Understanding Impact test requirement.
- Impact test code exemptions.
- Impact test acceptance criteria.
- Material Thickness criteria for impact test.
- Impact test exemption curves.
- Manual Problem solving for Impact
- Testing requirement.





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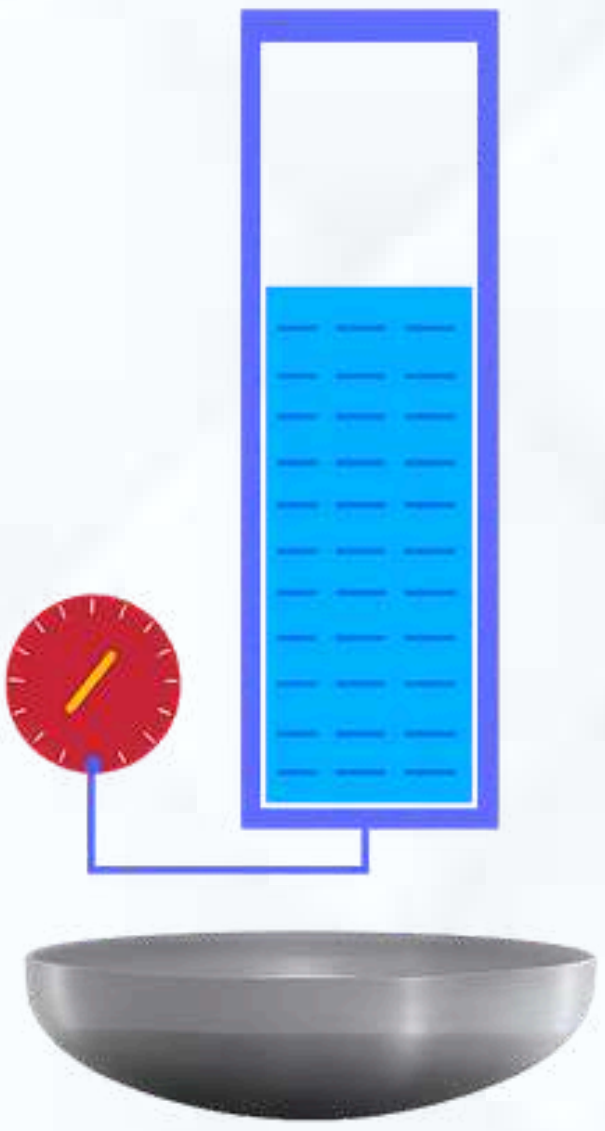
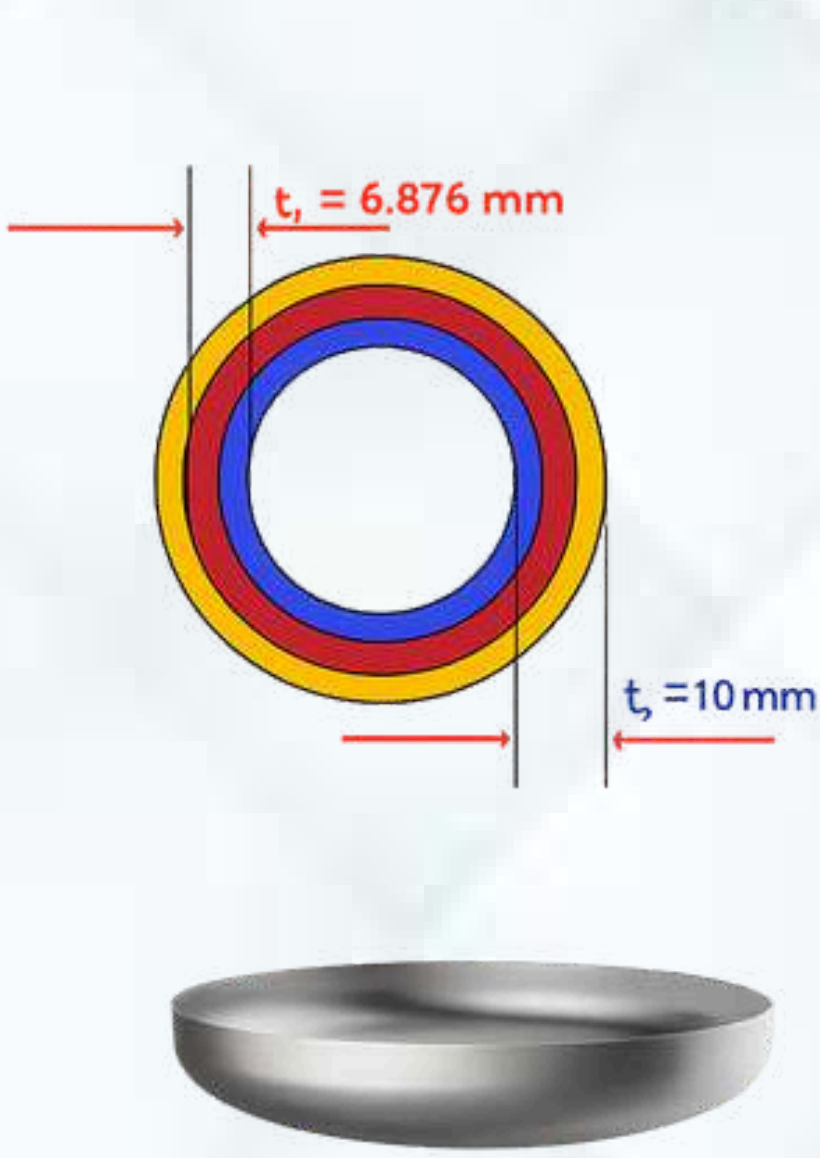
4 Internal Pressure Calculations (7 hrs)

- Requirements for Class 1 vs Class 2 Design Methodology
- 4.1.5.3- Loads & Load Combinations
- Table 4.2.4 - Various acceptable Weld Joint Designs
- 4.2.1 - Requirements of various weld categories (A,B,C,D,E,F)
- 4.1.3.2 - Mill Tolerance on Plates & Pipes
- Tolerances on Shell & Dished End for Internal Pressure
- Important Definitions & Nomenclature
- Concept of MAWP
- Liquid Static head calculations
- 1.4 - Units & Conversion
- Thickness calculation for internal pressure for
- Cylindrical shell - 4.3.3
- Spherical & Hemispherical shell - 4.3.5
- Conical shell - 4.3.4
- Torispherical dished end - 4.3.6
- Ellipsoidal dished end - 4.3.7
- Flat Head Thickness calculations - 4.6





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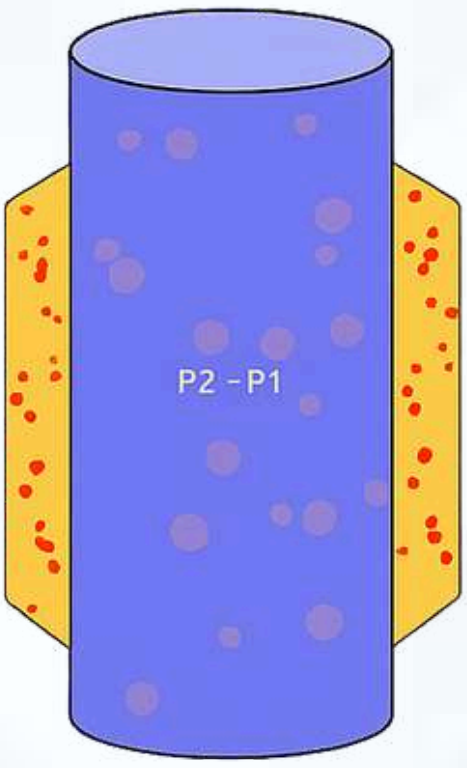
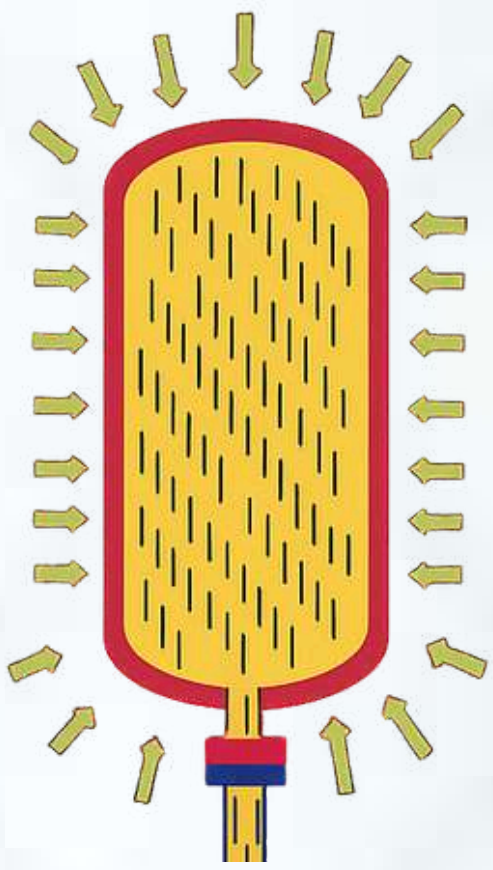
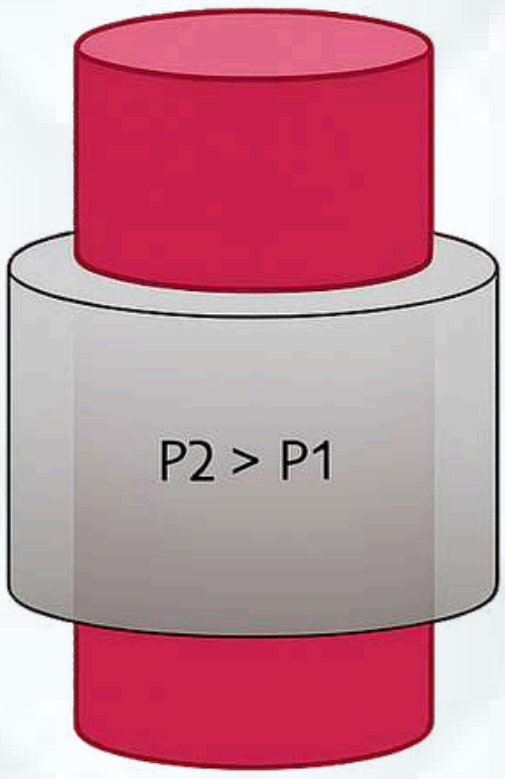
5 External Pressure Calculations (7 hrs)

- Failures caused by External Pressure & Concept of External Pressure
- How external pressure works.
- Difference in Methodology for Div.1 vs Div.2
- Figure 4.4.2 - Line of support concept
- Thickness calculation for External pressure
  1) Cylindrical shell, Thickness reduction by using stiffeners - 4.4.5
  2) Spherical & Hemispherical shell - 4.4.7
  Conical shell - 4.4.6
  3) Torispherical dished end - 4.4.8
  4) Ellipsoidal dished end - 4.4.9
  5) Concept of Stiffener design for external pressure
  6) Procedure for Stiffener design for external pressure - 4.4.5.2
  7) Moment of inertia calculations for various stiffener cross sections - 4.4.5.2
  8) Manual calculations of stiffener sizing







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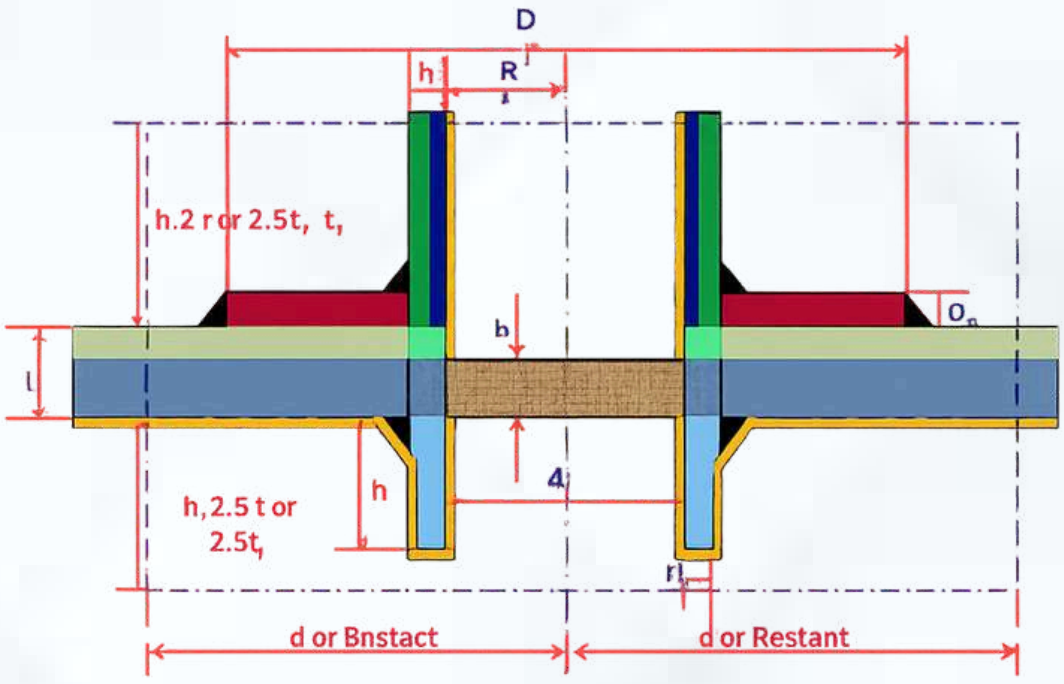
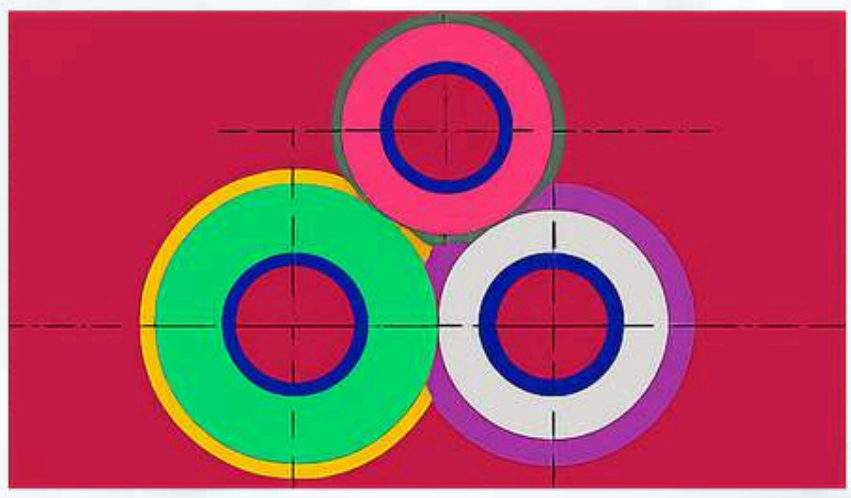
ASME SEC VIII DIV 2

6 Design-by-rules (Part 4) (12 hrs)

- Types of nozzles 12 hrs
- Nozzle neck thickness calculation criteria - 4.5.4
- Nozzle neck thickness calculation as per para 4.3 & 4.4
- Methods of Nozzle Attachment
- Design of openings in **Cylindrical shells:**
  1)Radial Nozzle in Cylindrical Shell - 4.5.5
  2) Hillside Nozzle (Offset) in Cylindrical Shell - 4.5.6
- Design of openings in **Conical shells:**
  1) Radial Nozzle in Conical Shell - 4.5.8
  2) Parallel/Perpendicular Nozzle to longitudinal axis in Conical Shell - 4.5.9
- Design of openings in **Formed Heads:**
  1) Radial Nozzle in Formed Heads - 4.5.10
  2) Hillside Nozzle (Offset) in Formed Heads - 4.5.11
- Design of openings in **Flat heads** as per para 4.5.12
- Concept of Multiple openings criteria for Vessels - 4.5.13
- Manual Problem solving for Set in Nozzle
- Manual Problem solving for Set on Nozzle
- Manual Problem solving for multiple openings
- Manual Problem solving for openings in flat head pressure vessel
- Design of openings subject to axial compression, external pressure or combination





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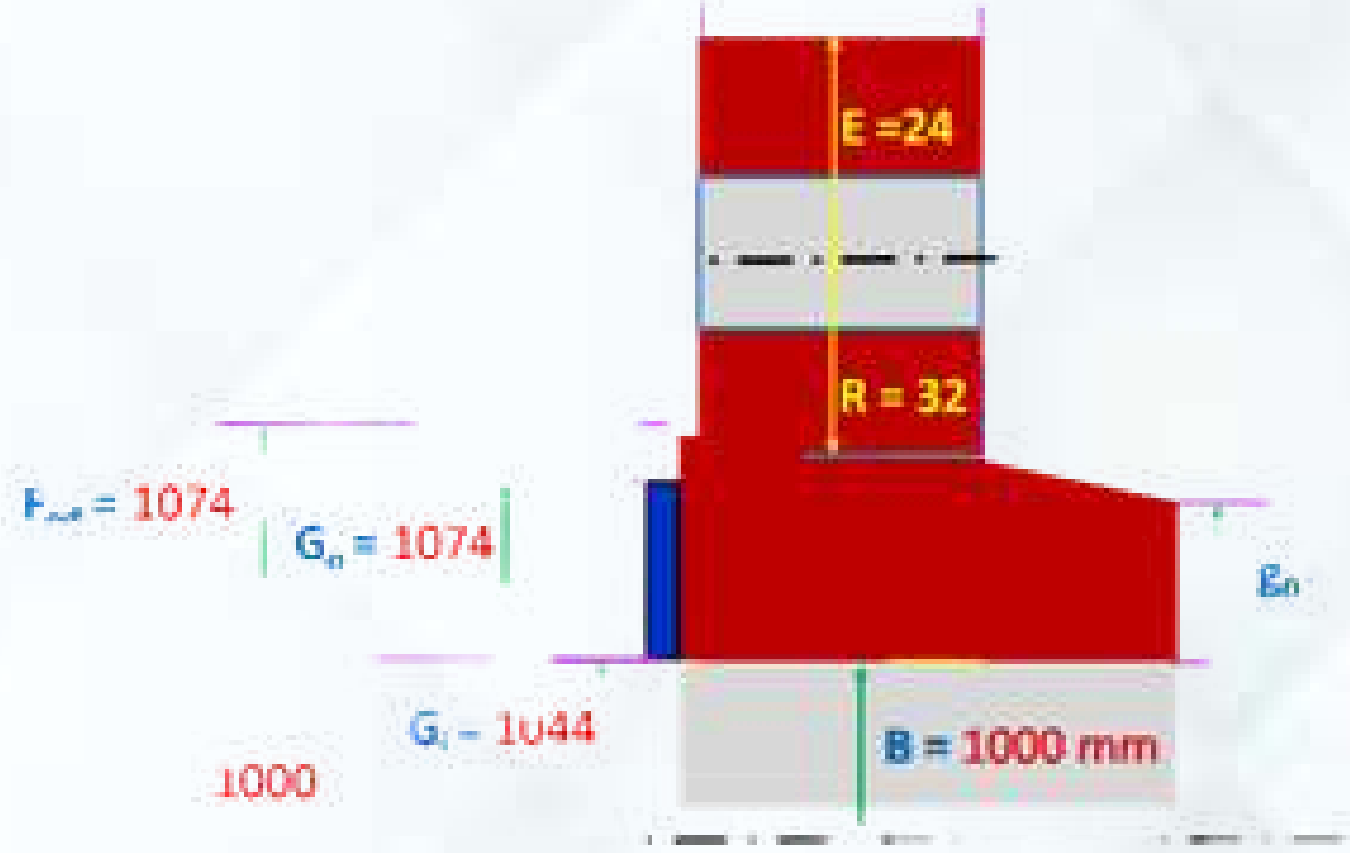
ASME SEC VIII DIV 2

7 Flange Design (12 hrs)

- Types of Flanges as per its application.
- Selection Of Standard Flanges
- Scope Of Para 4.16
- Type of flanges as per Para 4.16
- Flange design concept & steps as per Para 4.16
- Defining Flange Geometry for Integral flange
- Defining Flange Geometry for Loose ring & optional type.
- Blind Flange Design concept
- Checking of Standard Flanges for External Forces & Moments
- Manual Problem for Integral Flange
- Manual Problem for Loose ring Flange
- Blind Flange Design calculations & fininding deflection as per TEMA
- Rectangulare Flange Design as per PD-5500



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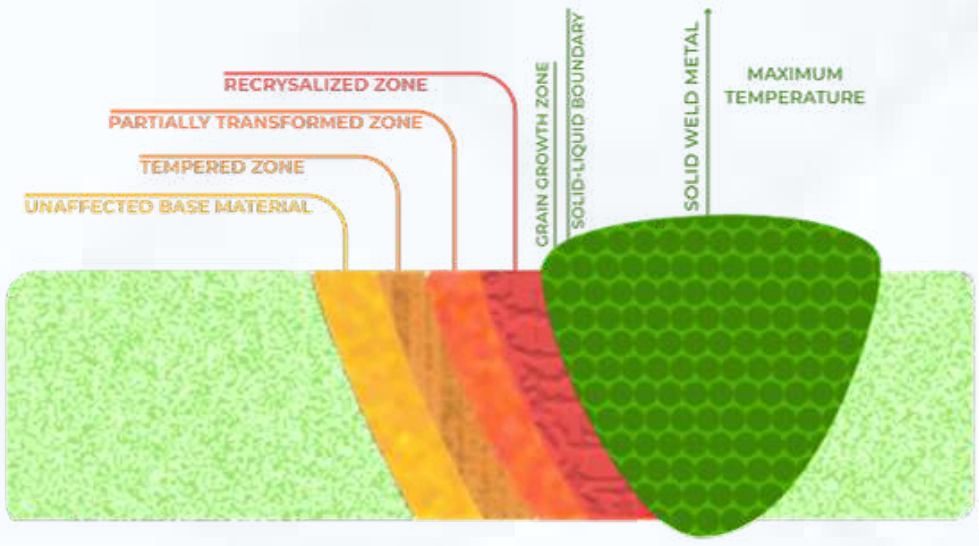
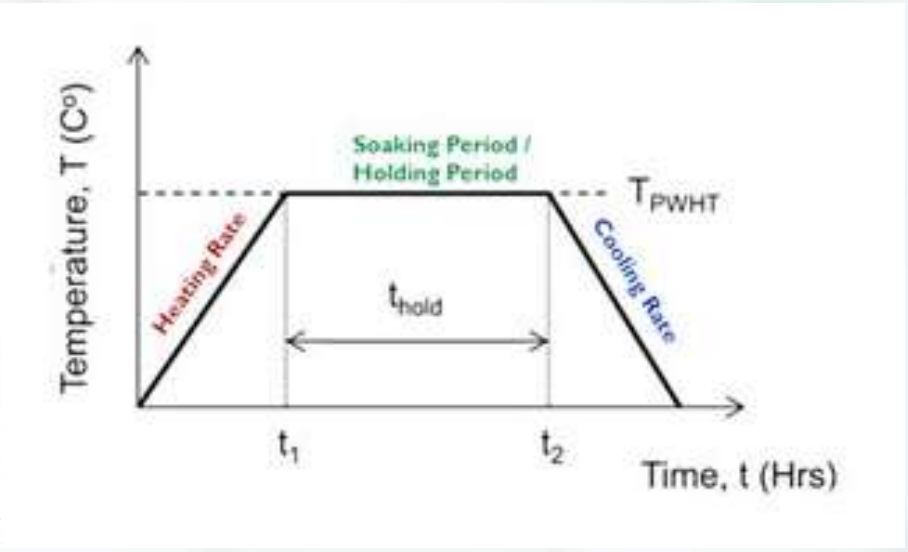
ASME SEC VIII DIV 2

8 PWHT & PHFT (5 hrs)

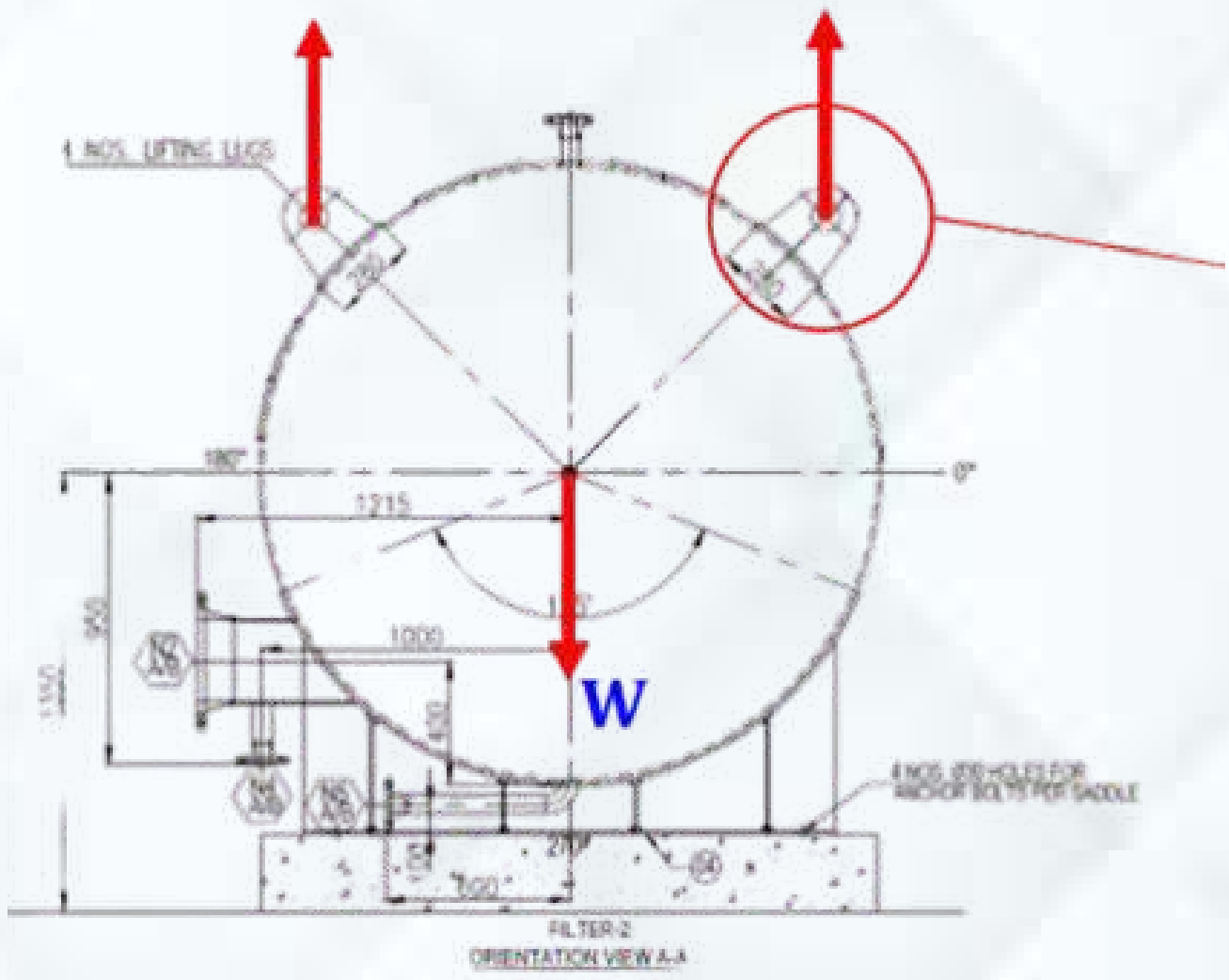
- HAZ and Residual stress understanding
- How stress relieving works?
- Understanding the need & significance of PWHT (Para 6.4)
- PWHT exemption requirements in ASME codes
- Procedures and methods for PWHT
- PFHT requirements of code
- Procedures for PFHT
- Heating / cooling rates
- Manual problems solving for PWHT & PFHT calculations





9 Lifting Lug design (2 hrs)

- Lifting Lug Design
- Lifting Lug Design-PV Elite



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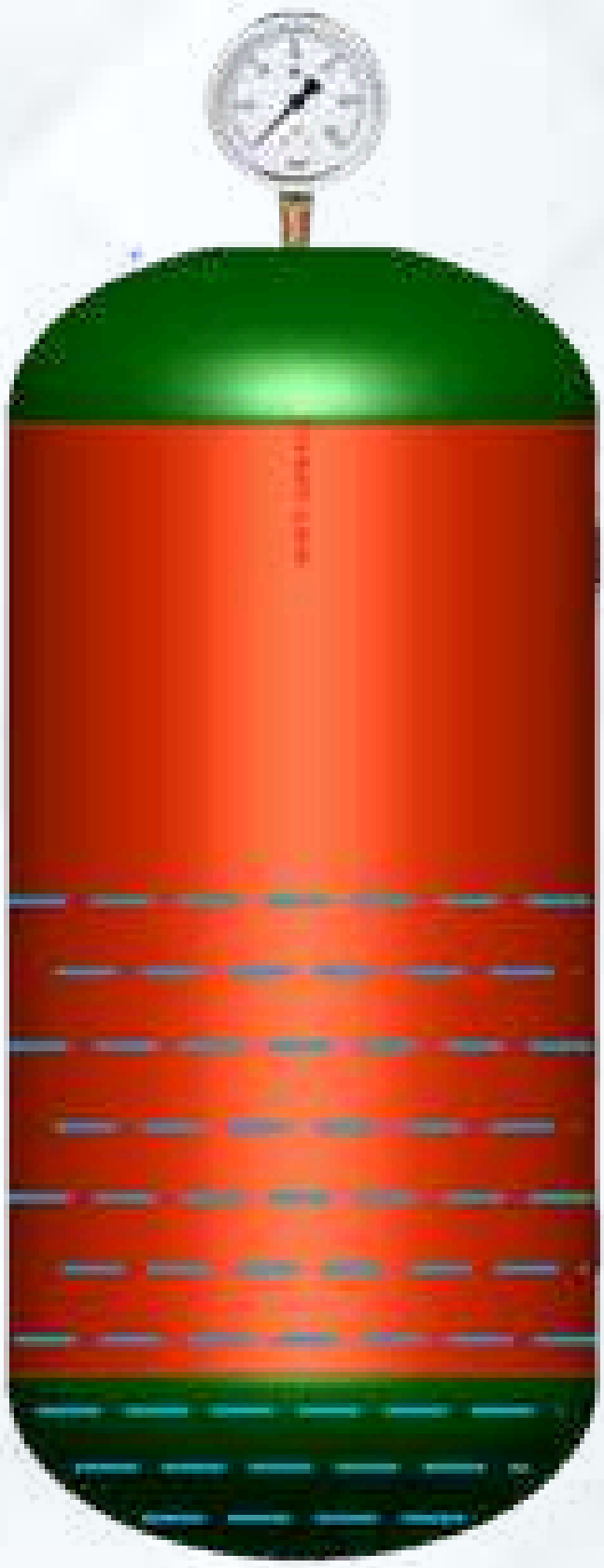
ASME SEC VIII DIV 2

10 Hydrostatic Test, Pneumatic Test Requirements Of Code (4 hrs)

- Pressure Testing requirements.
- Important definitions- MAWP, LSR, Calculated Test pressure.
- Hydrostatic Test requirement and significance.
- Hydrostatic Test procedure & Code requirements.
- Pneumatic Test requirement and significance.
- Pneumatic Test procedure and Code requirements.
- Calculating Test pressures, inspection pressures.
- Understanding pressurization stages, Test temperatures, & Test time significance.
- Proof Tests to establish maximum allowable working pressure.
- Manual Problem solving & PV Elite hydrotest calculations.



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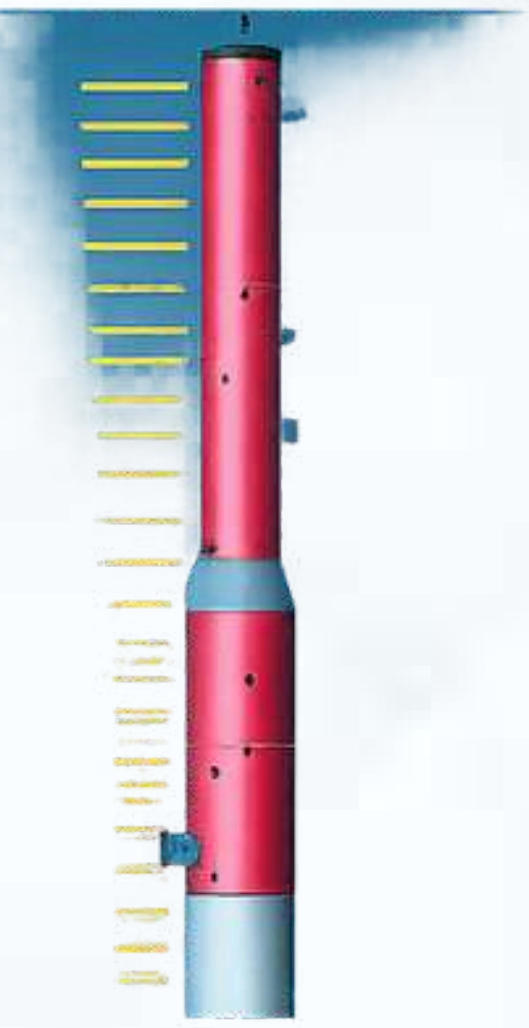
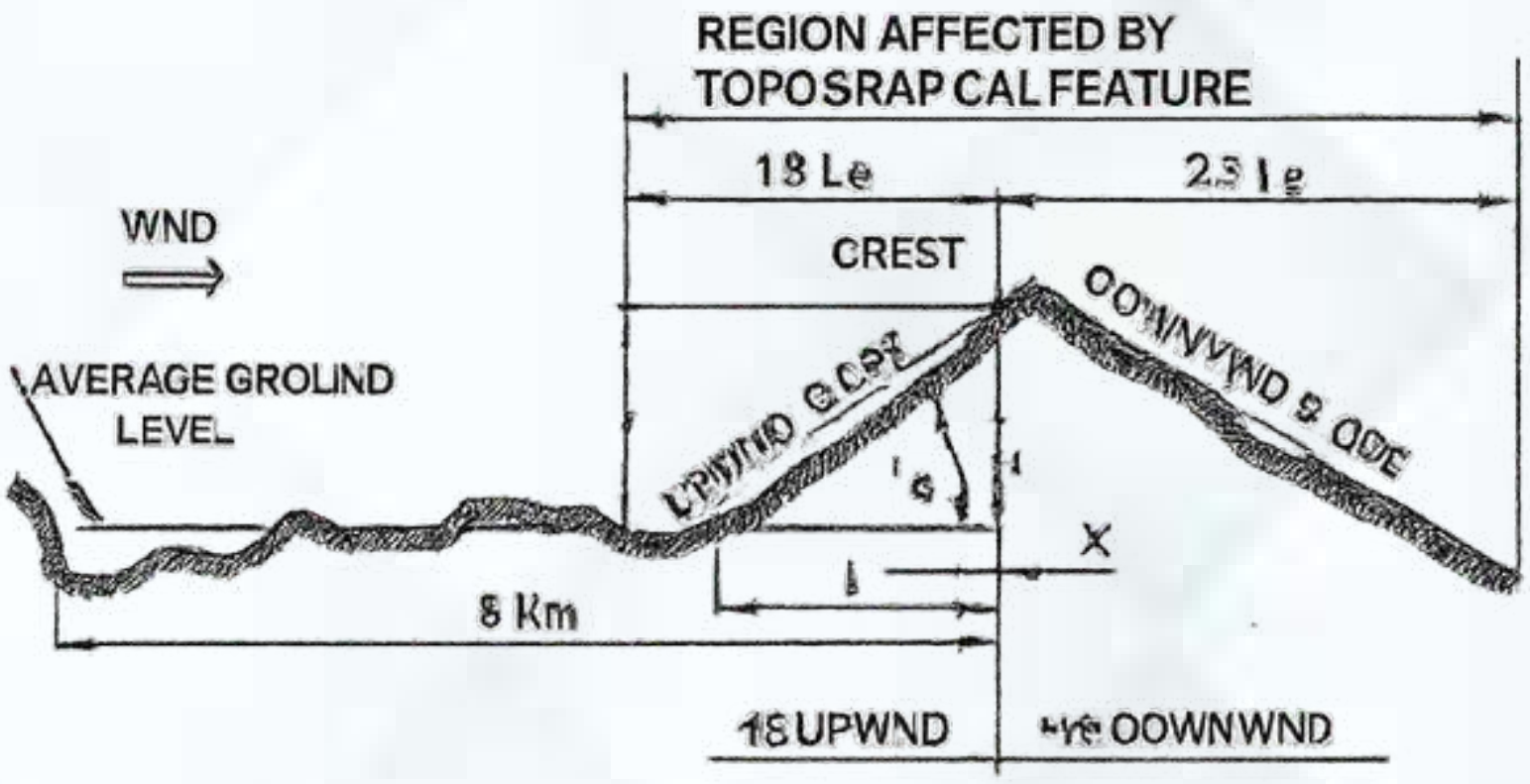
ASME SEC VIII DIV 2

11 Wind , Seismic & Combine Loading (9 hrs)

- Understanding Concept of Wind load
- Calculation of wind load as per IS 875
- Understanding concept Of Seismic load
- Calculation of seismic load as per IS 1893
- Concept of Combine Loading
- Manual Problem Solving for seismic Load + Pv Elite calculations
- Manual Problem Solving for wind Load + Pv Elite calculations
- Manual Problem Solving for combine loadings + Pv Elite calculations





13 (4) GENERAL NOTATIONS

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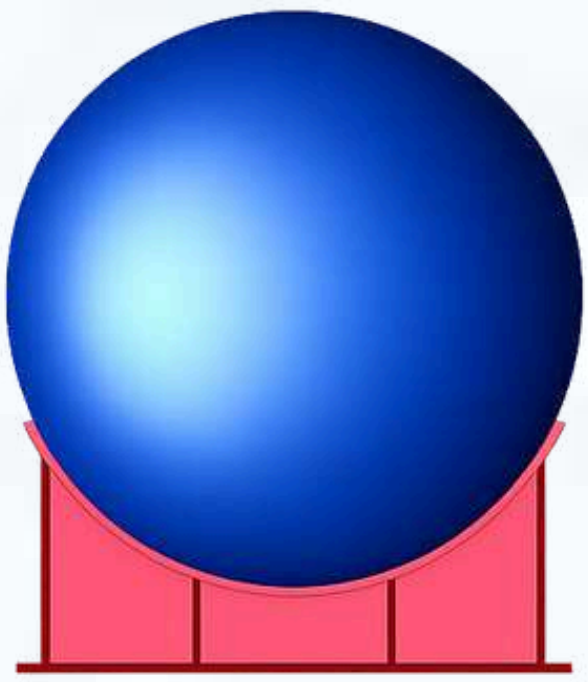
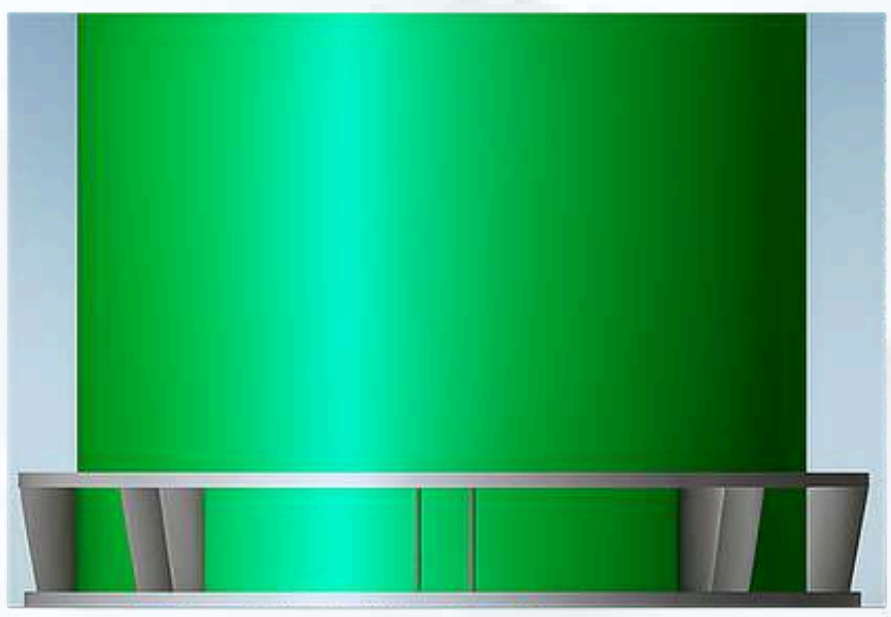
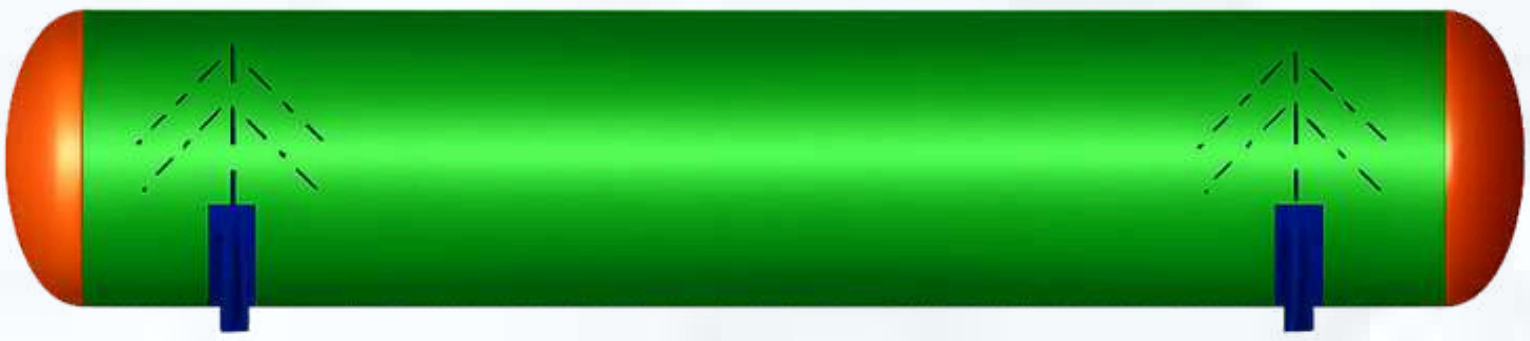
ASME SEC VIII DIV 2

12 Supports (6 hrs)

- Types of Supports.
  Significance of following types of supports
  -Skirt Support
  -Leg Support
  -Lug Support
  -Saddle Support
- Stresses in Vessel due to Saddle Locations.
- Procedure for saddle support location.
- Calculation of stresses in vessel component - 4.15.3
- Manual Problem Solving for calculation of stresses in vessel
- Manual Problem Solving for saddle support design
- WRC concept and sign conventions







13 Fatigue Evaluation (2 hrs)

- Concept of Fatigue
- Fatigue Evaluation as per para 5.5.2.2

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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.

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Know The Trainer

Sachin Pol

Sachin is a Mechanical Engineer from Pune University and a Postgraduate in Pressure Vessel Design. He has **15+ years' experience in Static Equipment Design.** He has worked in the field of Process Industry, Renewable Energy, Oil & Gas and Power Sector.

He is a well-known **corporate trainer** with versatile experience in the field of Static Equipment Design and FEA. He has successfully conducted trainings on PV Elite and ASME Codes across the globe for **more than 3500 professionals.**

Sachin served in some esteemed organizations like PRAJ, Thermax, Quadrogen.

He was an official presenter for Flange Design, Lifting Lug Design & WRC sign conventions at **CAU 2018** organized by Image Graphix across 8 cities in India.

With thorough technical knowledge and unmatched problem solving ability he has supported the customers to address their challenges and deliver quality output.

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Who Should Do This Course?

How We Can Help..!

Mechanical Engineer aspiring to make a career in Static Equipment Design in the field of Oil & Gas, Process Industry, Refinery, EPC, Chemical, Pharma & Power Sector.

Static Equipment Design Engineers looking to develop and excel in their role. This training will help them to **better understand** the code requirements and to **optimize the Design.** They will be able to **understand & resolve the queries and comments from customers and authorized inspectors.** They can **get answers** to their questions related to **live projects** as well. **No more delay** in Design due to any technical queries or questions.

Any Engineer seeking to switch to Static Equipment Design. The **in-depth** course content with detailed explanation of **code requirements, manual calculations** and easy to understand training material make it convenient to **transform** themselves into a **highly proficient** Static Equipment Design Engineer **in few months.**

Proposal/ Estimation Engineer looking to enhance their knowledge about materials, Design & various code requirements. This will help them to **optimize Design in a very short time** to match the proposal submission schedule.

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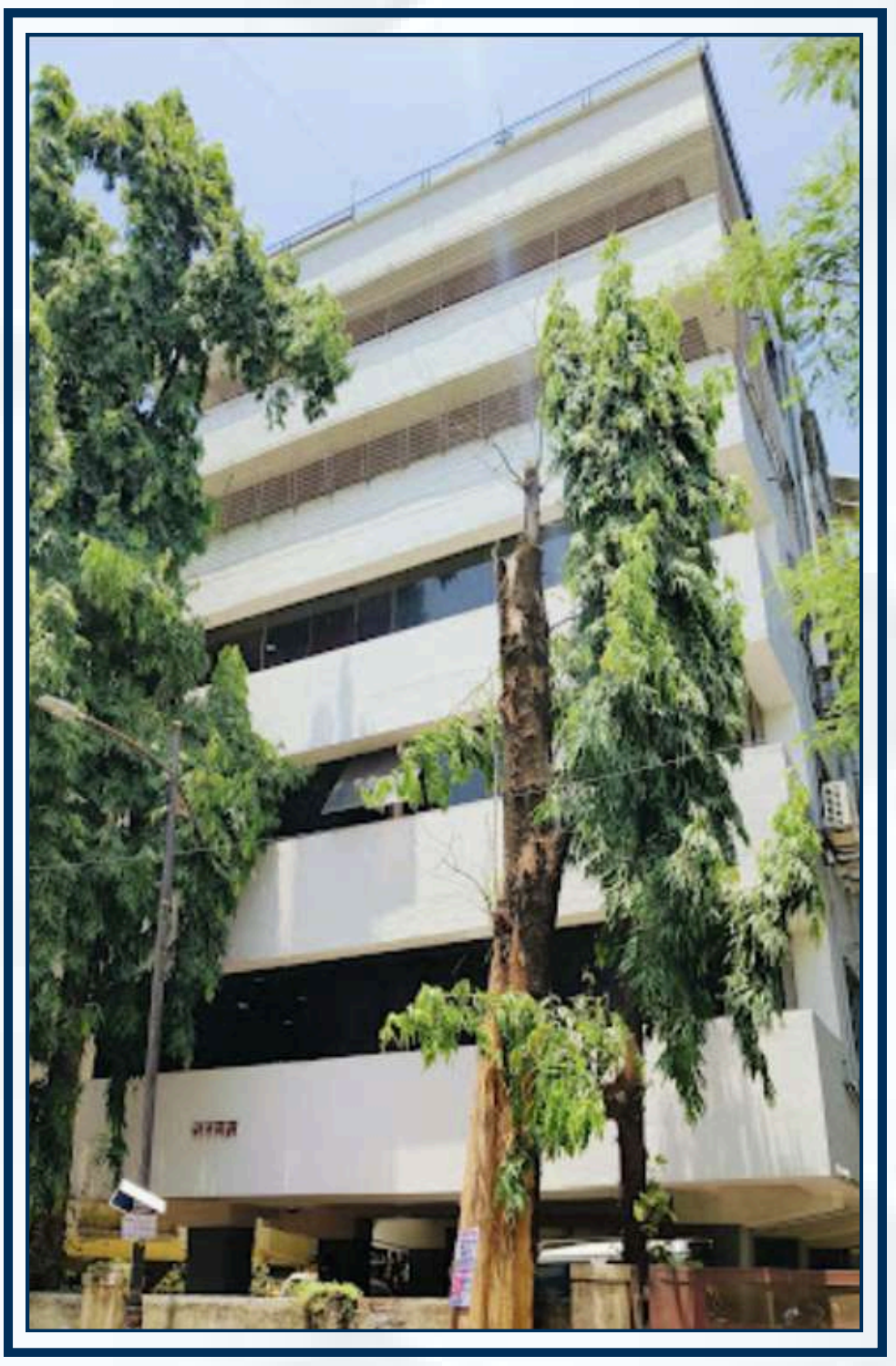
Design Services

About Us

With vast experience in Static Equipment, Structure, Thermal & Piping Design, 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 is the most professional and unique platform for Static Equipment Engineers. We are an Authorised Training Provider for ASME. We mean it, when we say, **“No one can de-code the code like us”**, as we have the experience and knowledge of working on various national and international codes and standards.

With a vast experience of Designing various Static Equipment, we provide the most **comprehensive** and **detailed** training courses to meet your needs. Within a short period, we have become the **most preferred training provider** to a lot of corporates and individuals.

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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.

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Our 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.

LEWA Creating Fluid Solutions
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SIGMA ENGINEERING WORKS
VeeTech

قافكو QAFCO شركة قطر للاسمدة الكيماوية QATAR FERTILISER COMPANY
KROHNE
FABTECH
JMS Johar Manufacturing Services LLC
فابكون FABCON

DOLPHIN GLOBAL HOLDINGS
TOYO ENGINEERING
L&T
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desmet ballestra Science behind Technology
FORBES MARSHALL

CPG CHANDERPUR GROUP
Alleima
CONE

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Our Track Record

How We Have Been Doing..!

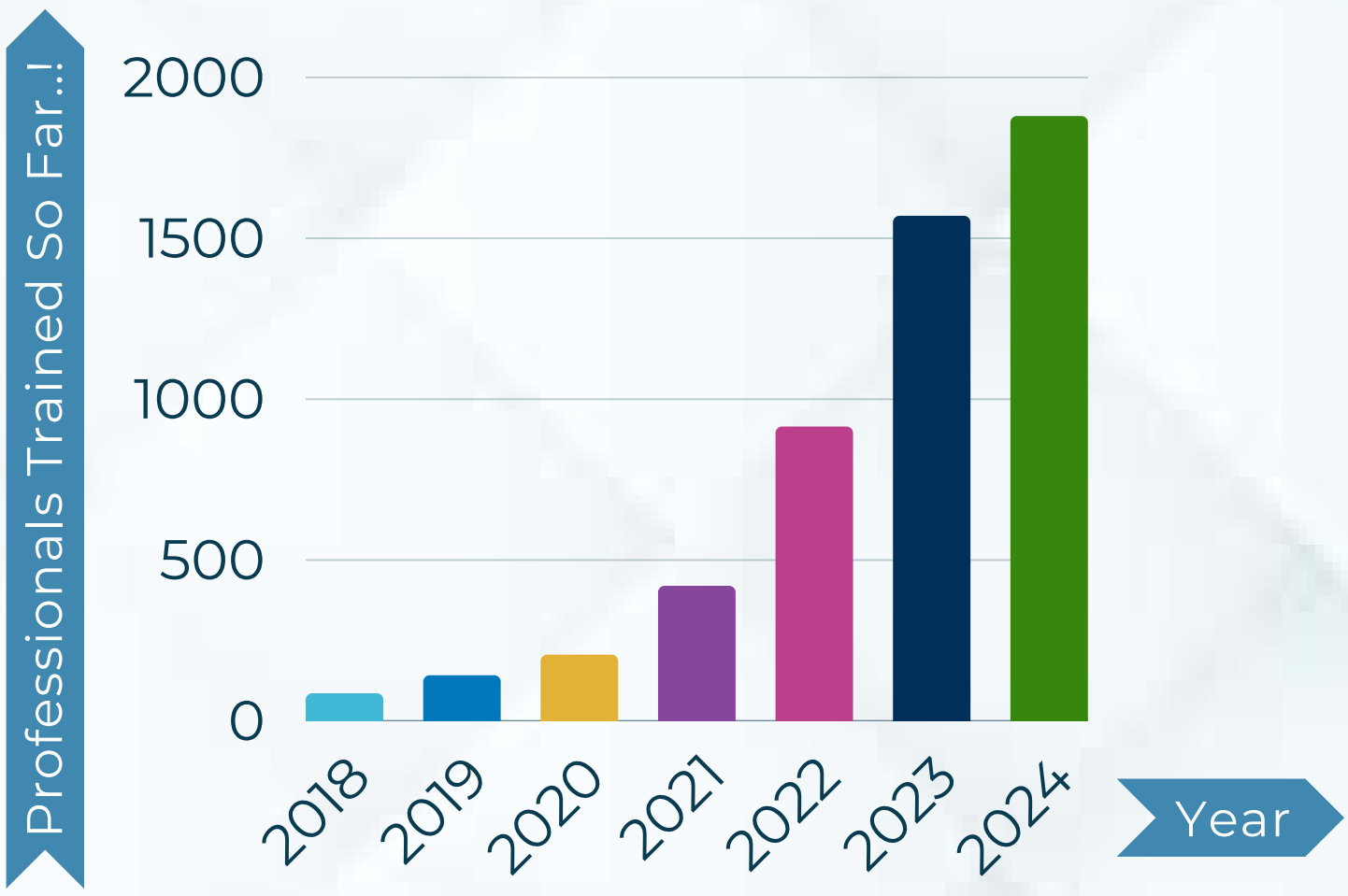
100+ Corporate Customers

4000+ Satisfied Trained Individual Online & Offline Combined

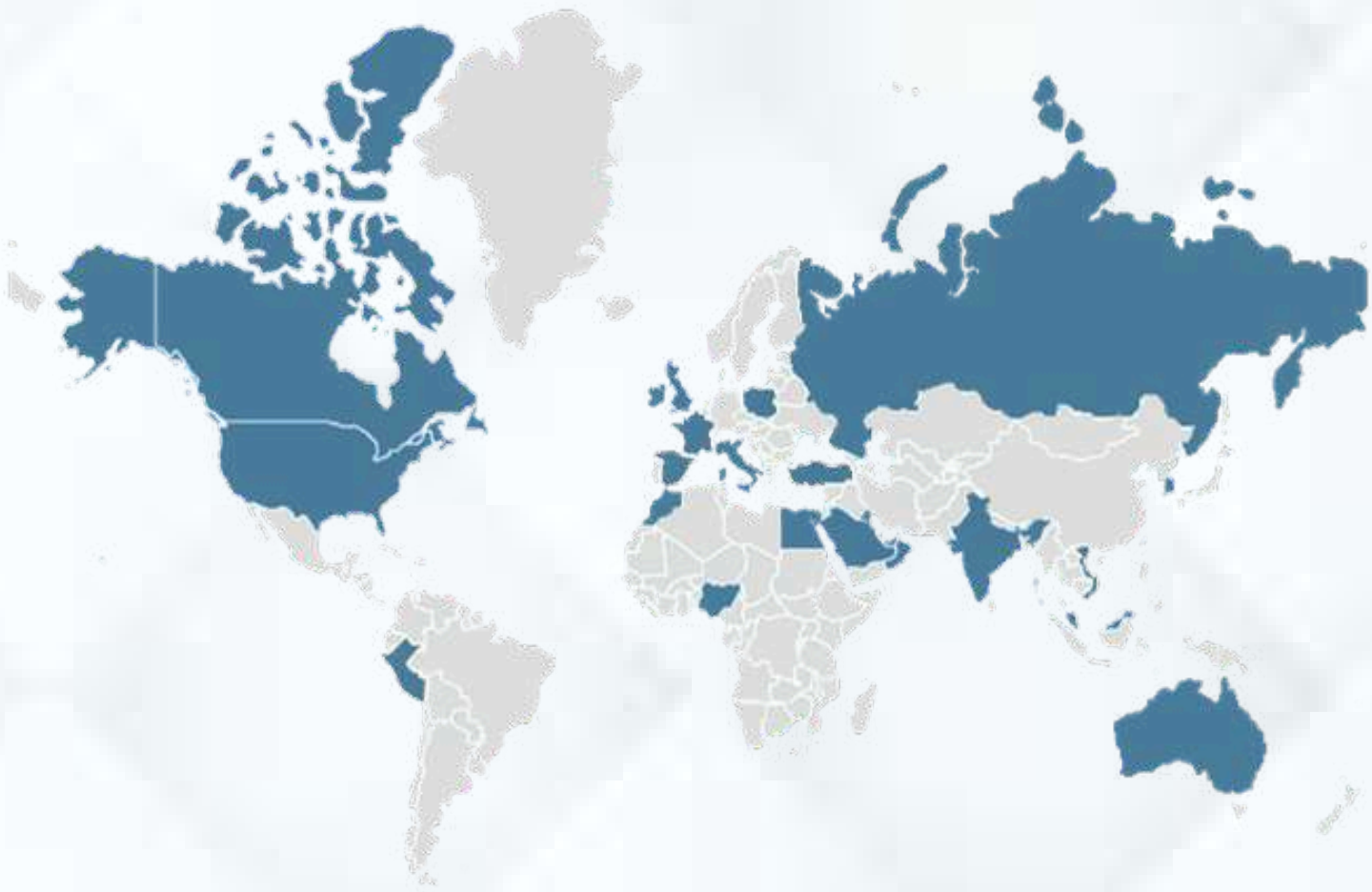
20+ Countries With Beneficiaries Across The Globe

0-28 Experience Range Of Engineers Trained

Over The Year...!



Beneficiaries Across The Globe



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About Training Platform

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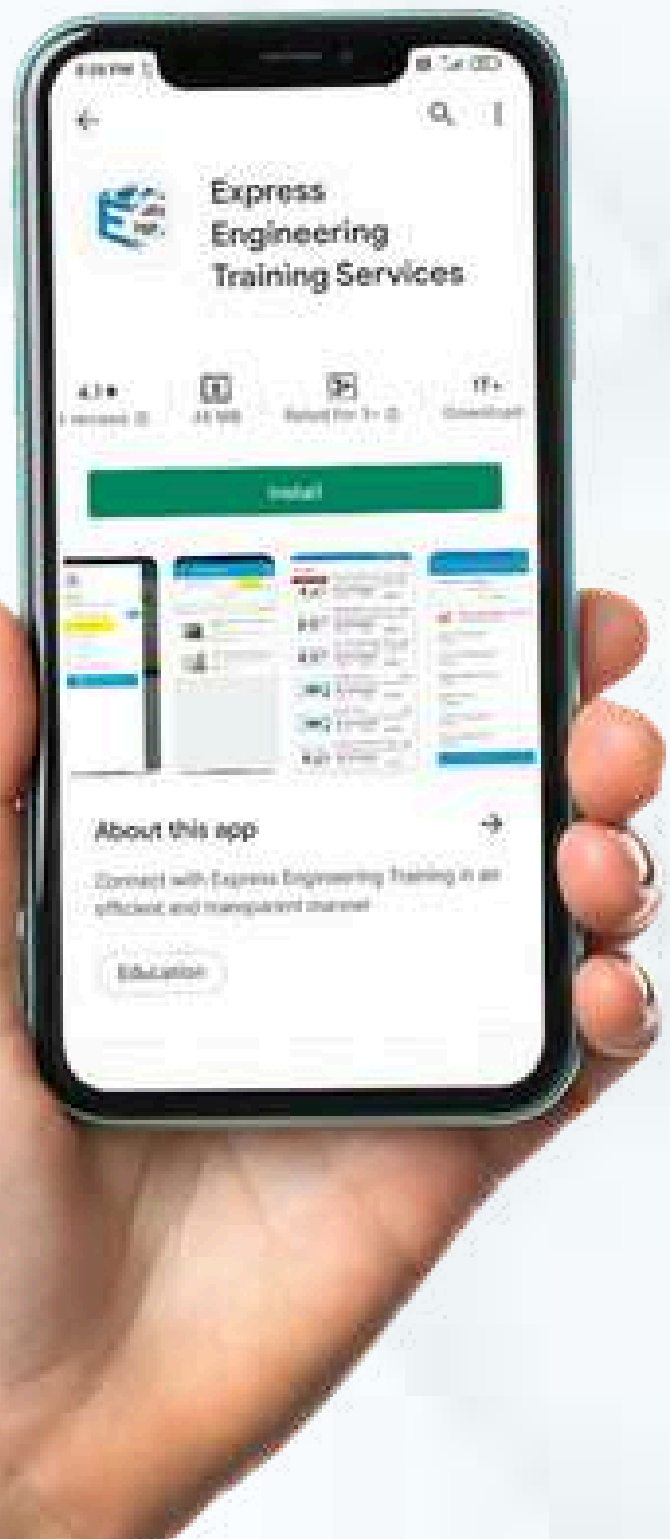

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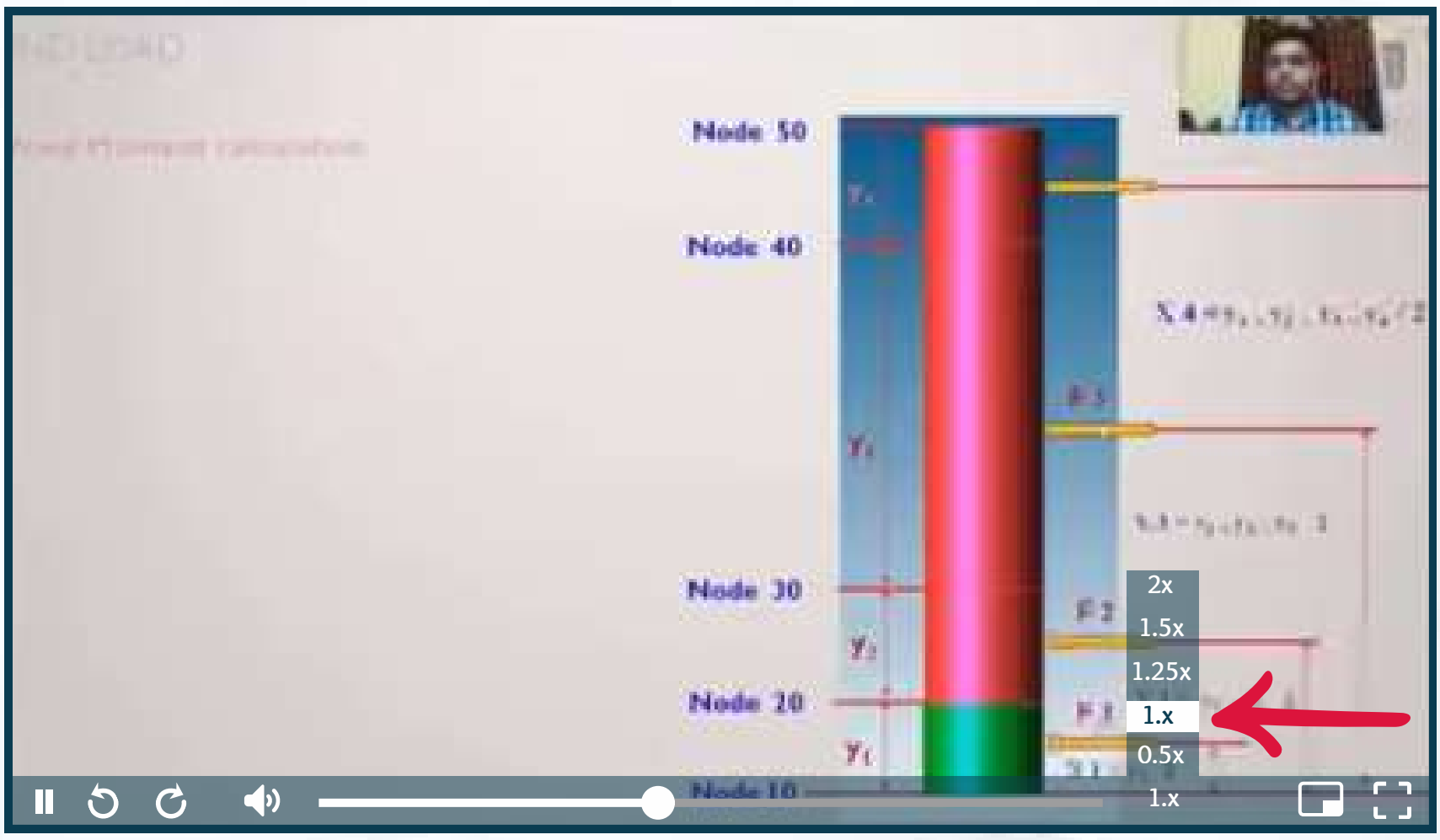
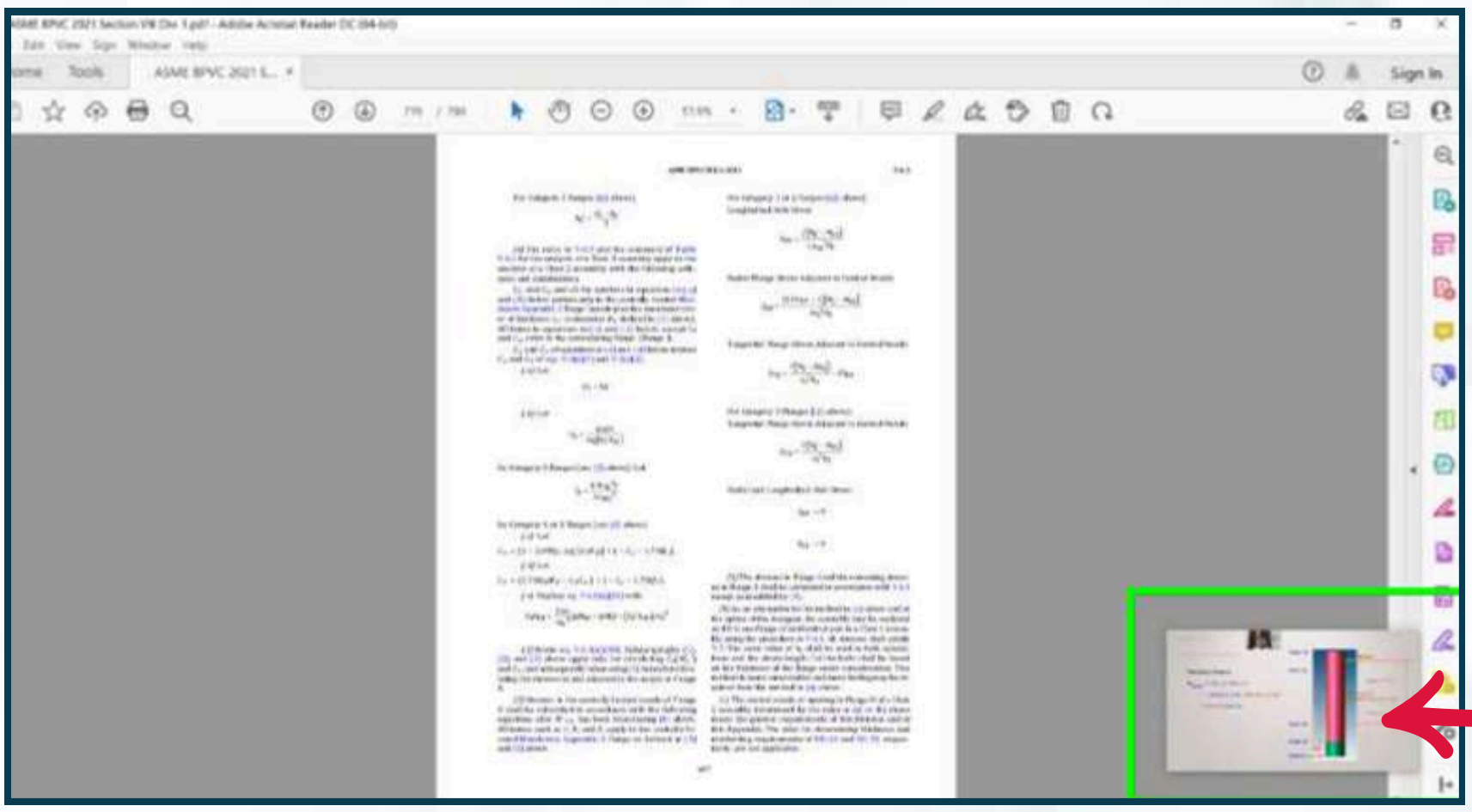
About Training Platform

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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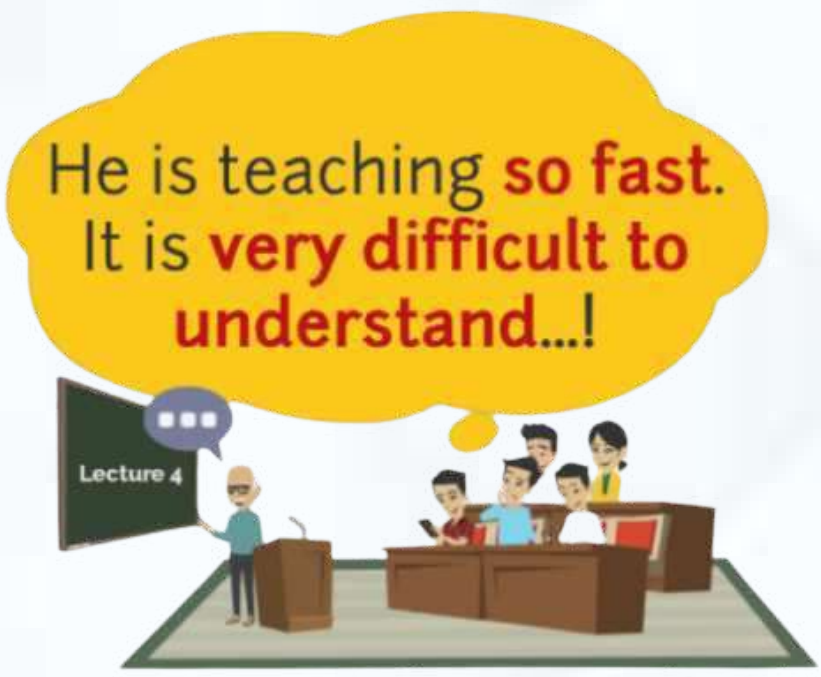
Advantages Over Offline Courses

Benefits Of Online Training

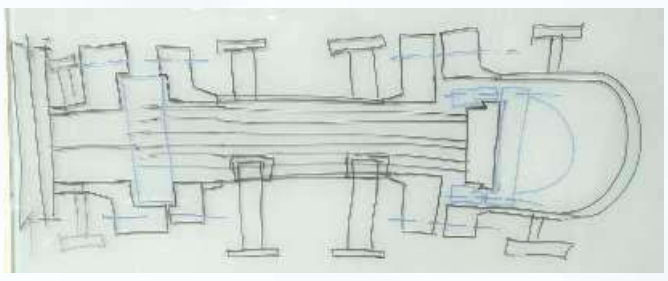
Offline | **Online**

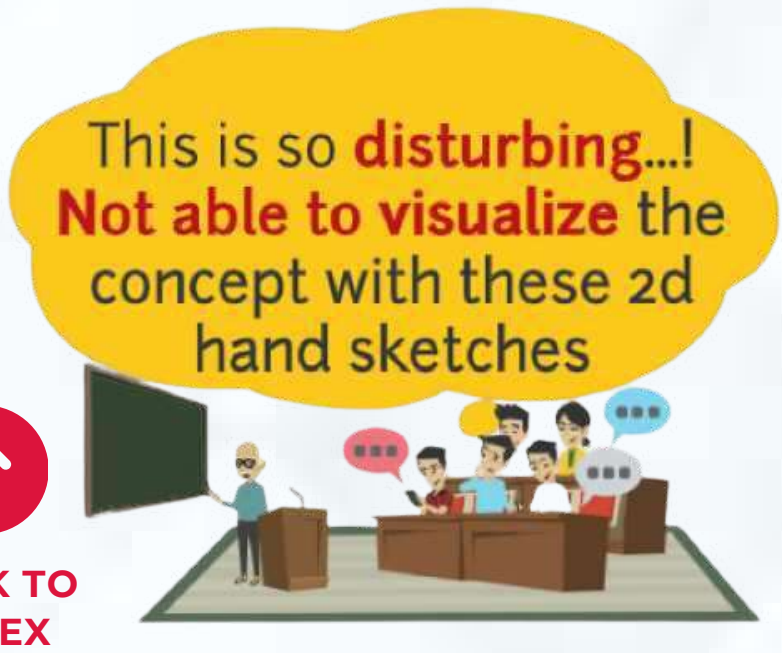
Never Miss Out On Any Lectures

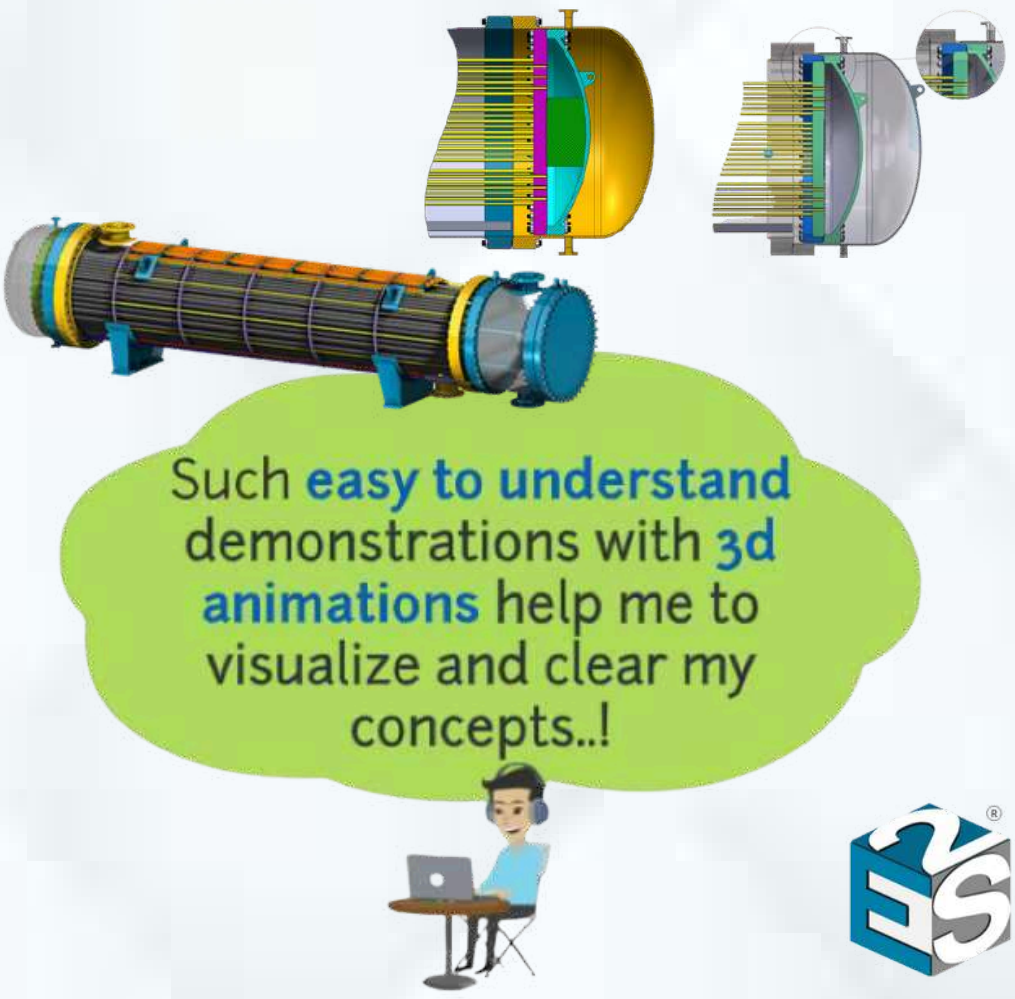
Learn At Your Own Pace



No Disturbances | Video Lectures | Animations







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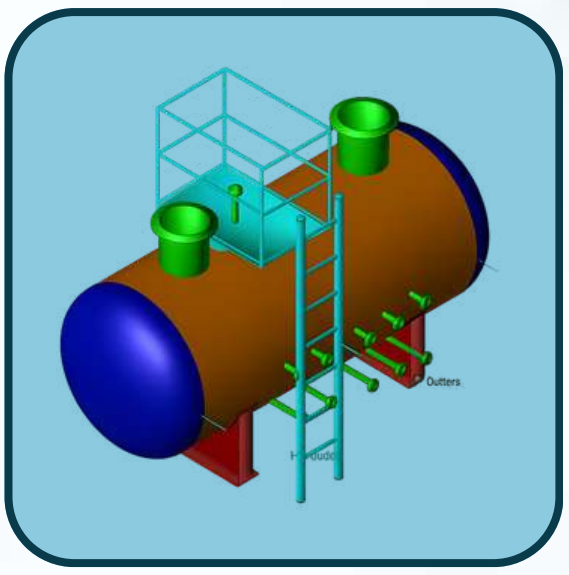
Our Other Courses

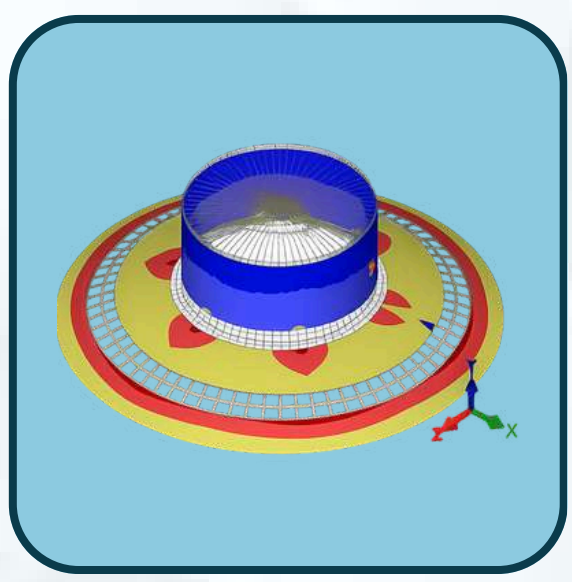
STATIC EQUIPMENT DESIGN



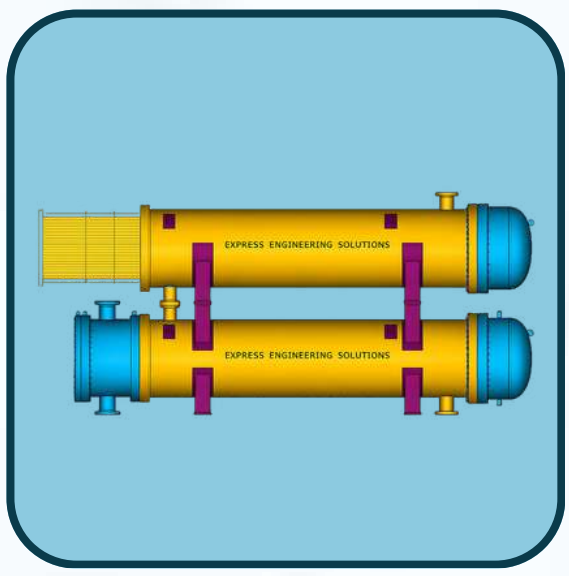
PRESSURE VESSEL DESIGN (DIV 1)

PRESSURE VESSEL DESIGN (DIV 2)

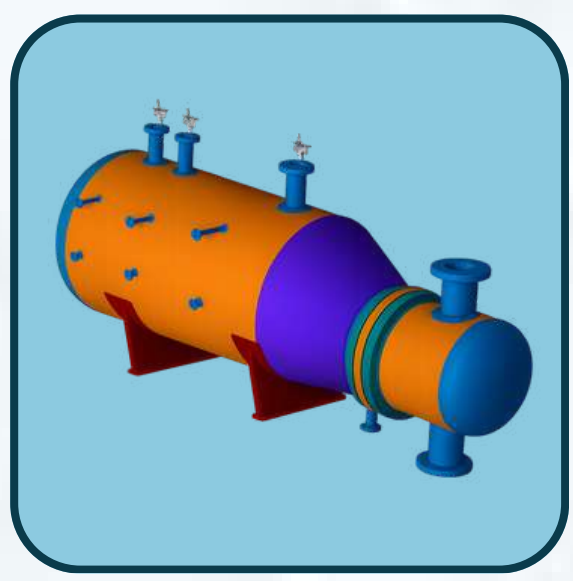
PREMIUM COMBO



NOZZLE PRO FEA



HEAT EXCHANGER DESIGN



PV ELITE SOFTWARE

ASME PD442

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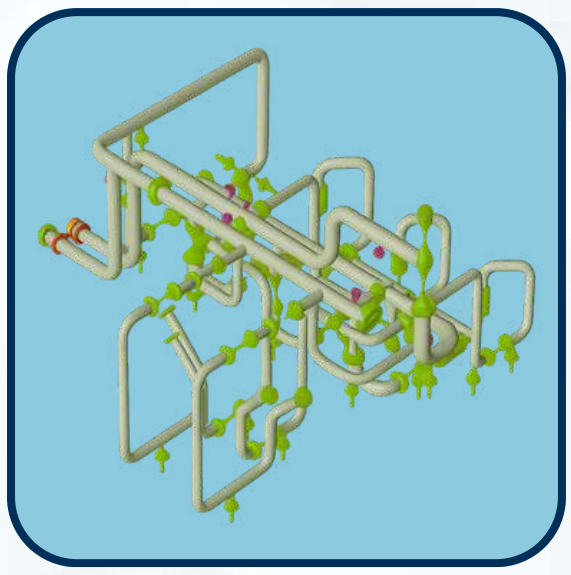
Our Other Courses

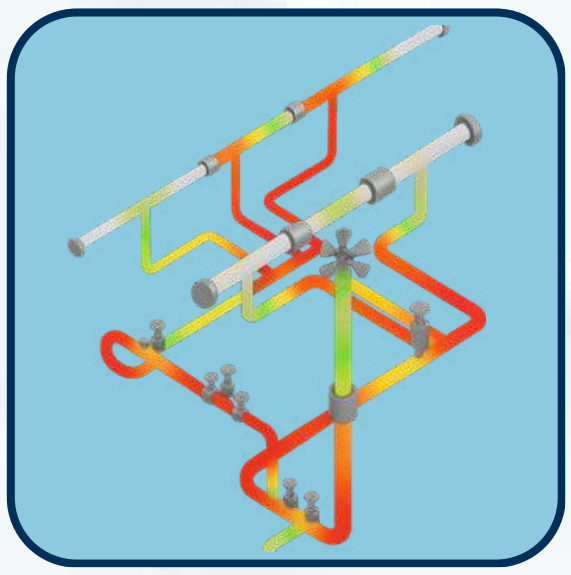
PIPE STRESS ANALYSIS

BASIC PIPE STRESS ANALYSIS



ADVANCE PIPE STRESS ANALYSIS

BURIED PIPELINE STRESS ANALYSIS



COMBO PIPING & PIPELINE STRESS ANALYSIS

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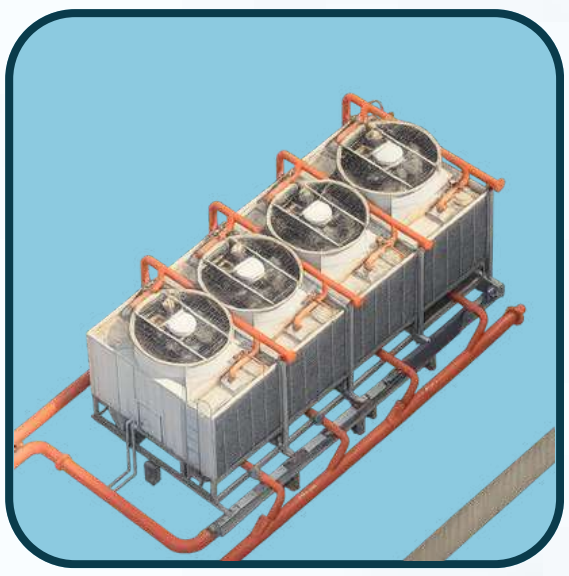
Our Other Courses

THERMAL DESIGN



AIR-COOLED HEAT EXCHANGER (ACHE)

SHELL & TUBE HEAT EXCHANGER (STHE)

THERMAL DESIGN COMBO (STHE & ACHE)

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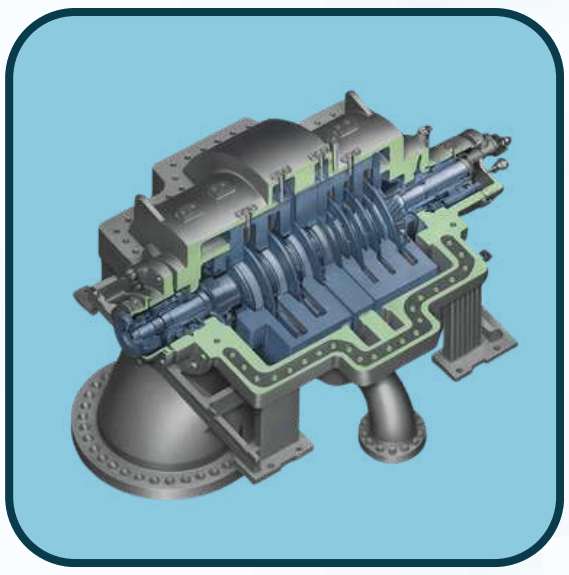
Our Other Courses

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

POWER BI

GD&T (BASIC)

GD&T (ADVANCE)

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