

COURSE 1: STATIC EQUIPMENT DESIGN & ENGINEERING COURSE

Course Fees : Rs 25000/-

Duration :- 50 Hrs

➤ **INTRODUCTION:-**

Fixed Equipment, sometimes also known as static equipment, is a term generally used to describe non-moving equipment in the oil and gas and process industries.

The majority of mechanical equipment found in oil and gas facilities belongs to the static equipment group, Some examples are Shell & Tube Heat Exchangers, Pressure vessels, Columns, Process equipment, Air Cooled Heat Exchangers, Hair Pin Heat Exchangers, Pig Launcher & Receiver.

➤ **COURSE OBJECTIVES :-**

- Build the competitive workforce in static equipment design domain by providing through knowledge of International Codes & Standards
- Improve competency, performance, career advancement and employability of Mechanical / chemical engineers.
- Learn to perform process equipment design calculations manually/With Engineering tools (Industrial accepted Software's Like PVElite, Codecal, Compress etc) .

➤ **WHO SHOULD ATTEND:**

- Mechanical / Chemical Engineering Graduates & working Professionals
- Anyone who is interested to build their career in Oil & gas Industry as Static Equipment Design Engineer

➤ **TRAINING COURSE METHODOLOGY:**

- This training course will combine the presentation, interactive classes, examples, supported with soft copy of training course booklet.

➤ **COURSE CONTAIN :-**

- Overview of Engineering Basics
- Different Types of Pressure Vessels & heat Exchangers
- Introduction to Engineering Materials – ASME Section II (Part A / B / D)
- Introduction to International Codes & Standards
- Introduction to Design Loads Considered as per UG-22

- Overview of Boiler & Pressure Vessel Code – ASME Section VIII Div 1
 - Code Structure
 - General Requirements – Part UG
 - Fabrication Requirement - Part UW
 - Material Requirements – Part UCS / UNF / UHA / UHX
 - Mandatory Requirements – App 1/2/3/5/9/13/26
 - Non Mandatory Requirements – A
- Shell & Tube Heat Exchanger Design – UHX method
- Girth Flange Calculations as per Appendix 2
- Introduction to TEMA
- Introduction to concept MDMT, PWHT, Impact Testing etc.
- Introduction to ASME Section VIII Div 2
- Introduction to Industrial Accepted Software's like PVElite, Codecal, Compress etc
- Design of Pressure vessels & Heat exchangers in PVElite

- Note: -
 - Evaluation test will be conducted after completion of each Course.
 - Courses will be conducted on Weekends i.e. Saturday & Sunday or Regular
 - Interested Candidates can registered for Free Session