



Mechanical Integrity & Reliability in Refineries,, Petrochemical & Process Plants

Date	Venues	(\$)Fees	Book your seat
28 Dec -01 Jan 2026	Cairo	2900	Register Now

Course Overview

This five days training course is to improve mechanical safety skills in the working area. Advanced topics on the mechanical safety work practices are included. The course will covers the evolution of mechanical safety work practices Standards, based on OSHA, NFPA and other international norms.

Course Objective

To give the participants a comprehensive understanding of the various aspects of technical integrity and engineered safety in petrochemical plants, refineries and oil & gas plants. This course combines current industry practices with engineering methods and applicable codes & standards. Further, participants will gain enough knowledge that will help them to improve their efficiency in managing technical integrity in a professional manner

Who Should Attend?

Technical Managers, Safety Managers, Engineers, Superintendents, Supervisors

Course Outline

- Introduction
- Key Elements Of Mechanical Integrity
- Reliability In Refineries, Petrochemical & Process Plants
- The Causes And Implications Of Industrial Failures
- The Estimation Of Consequences Of Pressure And Storage Equipment Failures
- Standards And Specifications Used In Safety Design
- The Integration Of Operability And Maintainability In Design
- The Types And The Various Application Used In Engineering Material
- The Methodology And Design Considerations Of Piping System In Pressure And Mechanical Integrity
- Best Practices In Safeguarding Systems And Discuss Its Safety Key Design Considerations
- The Various Failures In Rotating Equipment , Reliability Improvement And Prevention
- Correct Procedures Involved In The Inspection, Testing, Repair And Monitoring Of Equipment
- Maintenance Strategies And Programs Used In Mechanical Integrity & Reliability

Training Methodology

- Presentation & Slides
- Audio Visual Aids

- Interactive Discussion
- Participatory Exercise
- Action Learning
- Class Activities
- Case Studies
- Workshops

Simulation



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