

Atmospheric Storage Tanks

Consultant / Trainer

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The **Petrogenium. Atmospheric storage tanks** course will guide the participants to develop key concepts and techniques to select, design, operate and maintain the atmospheric storage tanks. These key concepts can be utilized to make optimized design and operating decisions without endangering technical and operational integrity of storage assets. This training give yourself and your employees the keys to success of reducing the cost for the full life cycle of storage tanks.



Participants

This **Petrogenium.** course aims at improving competencies of mechanical engineers, inspection and corrosion engineers, operators, process engineers in terms of understanding the storage engineering issues faced by complex refineries. It is also possible to benefit from an exclusive technical services arrangement from Petrogenium after the training. Participants can be from diverse spectrum of both young and experienced engineers. The training includes both theoretical and practical hands-on sessions. The training can also be structured to address specific issues faced by a particular refinery / operating unit.



Learning Objectives

- Design for longevity, operation, and maintenance.
- Right selection of atmospheric storage tanks.
- Theory of thin cylinders and applicable loading criteria.
- Operational considerations viz venting safety, pressure controls, volume accounting, loss controls, quality control aspects.
- Corrosion and degradation mechanism.
- Inspection management and scheduling, onstream inspection tools.
- Acceptance criteria on pressure boundary components increasing tank availability.
- Fundamentals to Tank RBI.
- Repair scoping of tank shutdown.

Programme

DAY 1

Storage Tank Specifics

- Design Selection
- Accidents with storage tanks
- Fixed roof and its components
- External floating roof, internal floating roof, Aluminum dome roof
- Rim seal designs

DAY 3

Inspection and RBI

- Inspection Management and scheduling.
- Onstream inspection technologies (Robotics).
- Repair scoping.
- Optimized tank RBI.
- New repair techniques (onstream floating roof repairs).

DAY 2

Operation and Corrosion

- Theory of thin cylinders and loading aspects
- Tank operational conditions
 - Venting
 - Emissions
 - Mixing and sampling
 - Loss control
 - Accounting
- Tank Construction
 - Construction methodologies
 - Hydrostatic test
 - Nondestructive testing
- Corrosion and degradation mechanism
 - Credible degradation mechanism for tank components
 - Internal and external corrosion mechanism and CRs
 - Accept, monitor, or reject decision.

Why select Petrogenium.?

The above support will be provided by principal consultants with 30+ years world-class experience in the technology and hands-on know-how from operation of refinery units.

Contact Petrogenium.:

Email: training@petrogenium.com

Website: <https://www.petrogenium.com/training/>

Because Experience Matters