


Two-Day Training Programme on ABOVE Ground Storage Tank Integrity Management and Risk Based Inspection Strategy



 **25th & 26th Feb, 2027**

 **Evolve by TCR**
215, Pancham Icon,
Vasna Road, near D-Mart,
Vadodara, Gujarat 390007

 **Fees: INR 15,000/-**
for single person +
GST 18% extra.

 **10% Discount** on total
amount of invoice for 03
or more nominations from
the same organization.

Course Content

- Overview of tank types, design, and construction (API 650).
- Key damage mechanisms affecting storage tanks, auxiliary equipment (pipelines and relief valves), including those arising from service conditions and environmental exposure (API 571).
- Risk analysis of tanks for applicable damage mechanisms (API 581).
- Inspection methods and optimization of inspection intervals (API 653), Comparison of intrusive vs. non-intrusive inspection methods.
- Repair and welding procedures of storage tanks (API 653).
- Petroleum and Explosive Safety Organization (PESO) requirements for storage tanks.
- Fitness for service analysis - procedures for evaluating continued operation viability.
- Trends in advanced inspection techniques.

Who Should Attend

- Asset Integrity Managers/Engineers
- Inspection and Maintenance Managers/Engineers
- Quality Assurance / Quality Control personnel
- Project Managers/Engineers

Objectives of the Training Programme:

- **Establish Strong Foundations in Tank Design and Standards:** Provide a thorough understanding of tank construction principles, types, and applicable codes such as API 650, 653, 571, and 581 to ensure compliance and design integrity.
- **Identify Critical Damage Mechanism:** Train participants to recognize and analyze degradation modes in tanks and auxiliary systems (e.g., corrosion, settlement, environmental cracking) using API 571 guidance.
- **Enable Risk-Based Inspection Planning:** Develop competencies in assessing risk through qualitative and quantitative RBI methodologies (API 581) to prioritize inspection intervals and reduce operational risk.
- **Apply Effective Inspection and Repair Strategies:** Explore inspection techniques (intrusive and non-intrusive), FFS analysis, and welding/repair protocols (API 653) that support sustainable and safe tank operation.
- **Ensure Compliance with PESO and Regulatory Norms:** Equip participants with knowledge of national safety and regulatory frameworks such as PESO to support safe storage and handling of hazardous substances.

Meet The Faculty



Mr. Paresh Haribhakti, MD

- He holds a post-graduate degree in Materials Technology from M.S. University, providing him with a solid academic foundation in metallurgy and materials science. With a leadership role at TCR Advanced Engineering Services, he has accumulated extensive experience in metallurgical engineering, and has solved over 9,500+ industrial challenges. He is expert in risk mitigation and management. He has also developed innovative tools for asset management and reliability enhancement, specifically tailored to the needs of critical infrastructure in the fertilizer and chemical industries.
- Paresh has authored 'Failure Investigation of Boiler Tubes: A Comprehensive Approach', published by ASM International, USA. His commitment to advancing knowledge and expertise is evident through his active participation in global conferences and contributions to leading metallurgical journals. He is an acclaimed expert for damage mechanism of oil & gas, refinery, petrochemicals, power, fertilizers. He holds expertise in inspection of fertilizer and petrochemical tanks

Mr Gopul Patel

- RBI Specialist and Advanced Materials Characterization Expert at TCR Advanced Engineering Pvt. Ltd., with over 15 years of experience in risk-based inspection, asset integrity management, and advanced analytical techniques. An API 580 certified professional, he contributes to digital solutions integrating FFS, API 581 risk analysis, IOW, and predictive maintenance.
- With a postgraduate background in Electronics, his expertise includes SEM/EDS, TEM, XRD, ICP-OES, and thermal analysis (DSC, TGA). Trained internationally in the Netherlands and Korea, he has played a key role in advanced microscopy applications, including Environmental SEM-based investigations.
- He also holds NDT Level II certifications (MT, PT, UT, Leak Testing) and specializes in failure analysis, microstructural diagnostics, and bridging lab-scale insights with real-world engineering applications.



Mr. Ketan Upadhyaya

- BE in Metallurgical engineering, PGD in computer science. He has experience of 35+ years in the field of NDE, Acoustic emission techniques, Vibration measurement and signature analysis, Failure Investigations, microstructure interpretation, Scanning electron microscopy and digital imaging system.
- He is a qualified level II for Acoustic Emission testing (IISC Bangalore), Vibration Analyst VT-II (Entec IRD) and Ultrasonic Flaw Detection (EEC Mumbai) techniques. He has expertise in Engineering Critical Analysis, high-temperature degradation of materials, Remaining Life Assessment (RLA), and Fitness-for-Service (FFS) evaluations. He has investigated over 1,000 failure cases related to petrochemical and oil & gas plants. With 35+ years of expertise in ammonia storage tank inspection and structural integrity assessment.

Mr. Nikhil Sabhaya

- He is a post graduate in Metallurgy. He has over 5 years of hands-on industrial experience in the field of Boiler Remaining Life Assessment (RLA) and Non-Destructive Testing (NDT). He is an ASNT Level III certified professional in ET, UT, PT, and MT. Additionally, he holds API 510 certification as a Pressure Vessel Inspector and is a CSWIP 3.1 Certified Welding Inspector. His deep practical experience, combined with his knowledge of various national and international codes and standards, enables him to effectively formulate and validate test procedures for diverse NDT applications.
- He has working experience in NDT testing at various Power projects, Petrochemicals, Refineries, Structural and Automobile Industries. He has an expertise in NDT and the application of various NDT methods for solving problems of Industry.



For NFET/ RTGS/ Bank transfer:

Account No: 05730400000034
IFSC: BARB0INDMAK (5th letter is zero)
Bank: BOB, Makarpura Branch
Merchant Name: TCR ADVANCED ENGINEERING PVT LTD
UPI ID : tcrad93762@barodampay



QR code for payment