EVOLVE by TCR
Innovate your skillset, Empower the mind

TCR ADVANCED

RELIABILITY THROUGH LIFECYCLE INTEGRITY

2-DAY TRAINING PROGRAM ON
ASSET INTEGRITY MANAGEMENT (AIM)

Asset Integrity Management (AIM) ensures that critical assets such as pressure vessels, pipelines, storage tanks, and rotating equipment operate safely and reliably throughout their service life. AIM integrates design, maintenance, inspection, and operational practices to manage risks associated with asset degradation, failure, and process safety. By applying industry standards and best practices, AIM supports data-driven decisions on repair, replacement, or continued operation, especially in high-risk sectors like oil and gas, petrochemicals, and refining. A robust AIM program improves reliability, reduces unplanned downtime, and supports safe, cost-effective operations.

Why Is AIM Training Important?

Asset Integrity Management (AIM) is often overlooked until failures occur, especially where systematic programs and inspections are lacking. AIM training is vital to proactively manage risks, prevent failures, and ensure safe, reliable asset performance.

AIM: The New Era of Proactive Asset Reliability

Key Benefits of AIM Training:

- Gain a solid understanding of AIM principles and lifecycle management to ensure structural and mechanical integrity in demanding operating environments.
- Improve plant safety and reliability by understanding degradation mechanisms and meeting key industry standards like API, ASME, and ISO 55000.
- Learn to implement Risk-Based Inspection (RBI) for smarter inspection planning, reduced downtime, and improved asset availability.
- Acquire practical knowledge of corrosion risks, monitoring tools, and mitigation techniques tailored to process industries.
- Understand how to maintain pipeline integrity through performance tracking, risk assessment, and mitigation across all lifecycle stages.
- Benefit from hands-on training at TCR's lab to apply advanced NDT methods for accurate damage assessment and failure analysis.

Program Overview : Course Structure

Day 1 – Asset Integrity and Corrosion Management-

- Definition, objectives, and benefits of Asset Integrity Management (AIM)
- Key integrity elements, their interdependence, and implementation strategies
- Asset Integrity Life Cycle: design, construction, commissioning, operation, maintenance, and decommissioning
- Asset degradation and damage: types, causes, impact, and failure modes (time-dependent vs. independent)
- Symptoms, control measures, and mitigation techniques for degradation and damage
- Corrosion Management System: scenarios, cost impact, corrosion control planning, and corrosion mitigation measures

Day 2 : Risk-Based Inspection, Pipeline Integrity & TCR Lab Visit-

- Introduction to Risk-Based Inspection (RBI), its benefits, limitations, and implementation steps
- RBI reassessment and updating to maintain effectiveness
- Pipeline Integrity Management: key elements, threats, and risk-based planning
- Risk assessment, mitigation strategies, and integrity management planning
- Monitoring pipeline health using lagging and leading KPIs
- TCR Lab visit for practical demonstration

Course Material and Resources

Participants will receive comprehensive course material including:

- Presentation Slides and Handouts.
- A training kit and certification.

Faculties

Mr. Paresh Haribhakti, MD

Mr. Paresh Haribhakti, Managing Director of TCR Advanced Engineering and a globally recognized expert in metallurgical failure analysis. With over 9000 industrial investigations and authorship of "Failure Investigation of Boiler Tubes" published by ASM International USA, Mr. Haribhakti brings unparalleled expertise in decoding HTHA-related failures. He has contributed to ASM Handbook Volume 11A and played a central role in applying API 579-1/ASME FFS-1 to real-world problems. As the creator of the AiOM™ platform for digital integrity management, he will guide participants on how to integrate inspection data with operational insights to manage HTHA risks proactively.

Mr. J. N. Agrawal

Mr. J. N. Agrawal, B.Tech (Electrical) and MBA (Marketing), has over 40 years of experience in the oil and gas industry, specializing in corrosion control and cathodic protection of cross-country pipelines, tanks, and plant facilities. He has extensive expertise in design, commissioning, O&M, corrosion audits, risk and integrity management, and troubleshooting. As CEO of M/s Corrsol Tech, he provides consultancy, training, and technical services in corrosion protection and pipeline integrity. A CP4-certified professional and Fellow of ICorr, he is also a member of AMPP, has authored books and technical papers, and was awarded the AMPP India Corrosion Awareness Award in 2023 for excellence in corrosion science and technology..

Mr. Chiral Patel

Mr. Patel has expertise in marketing, business development, inspections, and safety management within oil and gas sectors including gas plants, refineries, pipelines, and storage tanks. He is skilled in Sacrificial Anode and Impressed Current Cathodic Protection (ICCP) systems, corrosion inhibitors, scale inhibitors, biocides, and industrial coatings. Experienced in soil resistivity surveys, material specification, and CP system monitoring, he conducts testing, commissioning, and post-commissioning surveys (CIPL, DCVG, CAT, A-frame). He also performs water quality analysis for key parameters such as magnesium, calcium, pH, TDS, chloride, and sulfide residuals.

Mr. Nikhil Sabhaya

He is a Metallurgy post graduate with 5+ years' industrial experience in Boiler Remaining Life Assessment and NDT. Certified ASNT Level III (ET, UT, PT, MT), API 510 Pressure Vessel Inspector, and CSWIP 3.1 Welding Inspector, he applies national and international codes to develop NDT test procedures. Experienced in power, petrochemical, refinery, structural, and automotive sectors, his expertise focuses on boiler tube inspection, defect characterization, and life assessment using surface and volumetric NDT methods.

Who Should Attend This Program?

This program is designed for professionals responsible for ensuring the integrity, safety, and reliability of critical assets across the process industries. Ideal participants include:

- Maintenance and Reliability Engineers
- Inspection and NDT Personnel
- Corrosion Engineers and Metallurgists
- Process and Project Engineers
- HSE, Plant Integrity, and Risk Management Teams
- Operations Managers and Plant Heads
- Third-party Inspectors, Consultants, and EPC Professionals

Program Details:

- **Duration:** 2 Days
- **Dates:** 11th & 12th September , 2025
- **Venue :** EvolvebyTCR. 215, Pancham Icon, vasna road, near D-Mart, Vadodara, Gujarat 390007.

Registration Fee: Rs. 20,000/- + 18% GST per candidate

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

SPECIAL OFFER

For registration or more details, please contact:

Mr. Deepak Chandrana, Vice President of Evolve - 9909035325

Mr. Parth Bhatt, Training Coordinator of Evolve - 7574834848

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For NFET/ RTGS/ Bank transfer:
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QR code for payment