



Two-Day Training Programme on Reformer Tube - Fitness for Service and Life Extension through Inspection-Based Approaches

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 **29th & 30th
October, 2026**

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

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 **Fees on request:**
evolve@evolvetcrcr.com

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 Group discounts apply for
three or more nominations
from one organisation.

Course Content

- Understanding metallurgical principles and properties of heat-resistant steels used in reformer tubes.
- Learning key design and operating factors affecting tube performance.
- Identifying common damage mechanisms under high-temperature service conditions.
- Understanding material changes during long-term high-temperature exposure..
- Learning methods to evaluate the remaining service life of tubes.
- Understanding indicators for safe retirement of reformer tubes.
- Exploring NDT methods for inspection and defect detection.
- Learning systematic failure analysis approaches through practical industrial case studies.

Who Should Attend

- Maintenance, Inspection, and Process Engineers
- Plant Engineers, Managers, and Middle-Level Engineers
- QA / QC and Reliability Engineers
- Metallurgical and Materials Engineers
- HAZOP Engineers and Safety Professional
- Technical, Laboratory, and Sales Personnel in metal-related industries
- Professionals from allied engineering disciplines working with metals

Objectives of the Training Programme:

- Understand damage mechanisms in reformer tubes.
- Learn degradation behaviour in short- and long-term operations.
- Identify design and operational causes of tube failures.
- Understand welding challenges in reformer tube materials.
- Gain metallurgical insight into high-temperature tube materials.
- Improve problem-solving for reformer tube failures.
- Learn failure analysis methods and fracture behaviour.
- Develop skills to conduct and supervise failure investigations.
- Enhance plant reliability, safety, and operational efficiency.

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 9000+ industrial challenges. He is expert in risk mitigation and management.
- Paresh has authored 'Failure Investigation of Boiler Tubes: A Comprehensive Approach', published by ASM International, USA. He passionately advocates for eliminating failures across industries and working towards predicative approach. 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. With his deep metallurgical knowledge and field experience, he provides advanced insights into boiler tube damage mechanisms and failure analysis, making him central to the course on boiler failure mitigation.

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. His practical NDT expertise is critical for boiler tube inspection, defect characterization, and life assessment, especially using surface and volumetric methods.



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. His cross-functional diagnostic skills contribute significantly to identifying boiler degradation trends.

Fees and payment

Course fees, group discounts and payment instructions are issued with the nomination confirmation. Write to evolve@evolvetcr.com or call +91 75748 34848.



+91-75748 34848



evolve@evolvetcr.com



www.evolvetcr.com