





Two-Day Training Programme on Knowledge Based Audit (KBA) for Mechanical Integrity of Boilers Interfacing O&M Practice



4th & 5th February 2026

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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

- Approach to handling challenges in maintaining boiler integrity in the current operating scenario with RE penetration in the grid.
- · Material and Metallurgy.
- · Damage Mechanism of Boiler Tube.
- Boiler Inspection and NDT Techniques.
- Case studies of Boiler Tube.
- · Boiler Water Chemistry.
- Cyclic loading and impact on boiler tube, associated piping.
- Fuel quality and contamination lead to damage.
- Knowledge based study.

Who Should Attend

- NDT Engineers
- · Maintenance / Inspection Engineers
- Process engineers
- Plant Engineers / Managers
- QA / QC Engineers
- Reliability Engineer
- Metallurgical / Materials Engineers
- HAZOP Engineers / Managers

Objectives of the Training Programme:

- Build Core Understanding of Boiler Integrity Challenges: Develop insights into mechanical integrity issues arising under modern operational demands, including the impact of renewable energy (RE) penetration and cyclic loading.
- Understand Material Behavior and Damage Mechanisms: Provide knowledge on metallurgy, failure modes, and degradation mechanisms—both short-term and long-term—impacting boiler tubes and associated systems.
- Select and Apply Appropriate Inspection Techniques: Enable participants to match the correct inspection method (NDT-based) to the type and severity of identified damage, optimizing reliability and accuracy.
- Analyze the Role of Water Chemistry and Fuel Quality: Explore how water treatment, contamination, and fuel characteristics affect boiler health and contribute to damage or failure scenarios.
- Apply Case-Based Learning for Practical Insight: Use real-life case studies to reinforce learning and demonstrate the application of inspection data, failure analysis, and corrective actions.

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.

Mr. Ketan Upadhyaya

- · BE in Metallurgical engineering, PGD in computer science. He has experience of 25 years in the field of NDE, Acoustic emission techniques, Vibration measurement and signature analysis, Failure Investigations, microstructure interpretation, Scanning electron microscopy and digital
- · 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.





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
- 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.

Mr. M.N. Patel

- · BE & ME in Metallurgy. Has 33 years of teaching experience in UG and PG level in subjects like Plastic Deformation of Metals, Mechanical Metallurgy, NDT and Failure Analysis, Mechanical behavior of materials, Selection of Materials and Failure Analysis, Physical Metallurgy and Welding Metallurgy.
- · He holds expertise in physical metallurgy, micro structural analysis, scanning electron microscopy, welding metallurgy, failure analysis.



For NFET/ RTGS/ Bank transfer:

Account No: 0573 0400 0000 34 IFSC: BARBOINDMAK (5th letter is zero)

Bank: BOB, Makarpura Branch

Merchant Name: TCR ADVANCED ENGINEERING PVT LTD

UPI ID: tcrad93762@barodampay

QR code for payment







