

BOILER TUBE FAILURE MECHANISM, INVESTIGATION AND MITIGATION

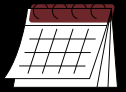


Evolve by TCR

215, Pancham Icon,
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**19th & 20th
December 2024**

Course Content

- Materials & metallurgy
- Boiler tube damage mechanisms
- Water chemistry
- Erosion problems
- Boiler inspection
- Boiler tube NDT inspection
- Case studies of boiler tube failure investigation
- TCR lab visit and QA session

Who should attend

- Maintenance/ process/ inspection/ reliability/ plant/ QA-QC/ metallurgical/ materials & HAZOP engineers
- Boiler inspectors

Objective

- **Damage Mechanisms:** Understand common damage mechanisms in boiler tube failures.
- **Degradation Principles:** Learn short-term and long-term boiler degradation principles.
- **Metal Behavior:** Analyze metal behavior to better address boiler tube failures.
- **Failure Analysis:** Recognize techniques and precautions for analyzing failures.
- **Stress Systems:** Understand stress systems and their relation to ductile and brittle fractures.

About Faculties



Mr. Paresh Haribhakti
MD

Education: 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.

Experience: With a leadership role at TCR Advanced Engineering Services, he has accumulated extensive experience in metallurgical engineering, and has solved over 8000+ industrial challenges.

Expertise: 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.

Mr. M. N. Patel, Ex. Associate Professor Metallurgy & Materials Engg Dept.

Education: BE & ME in Metallurgy.

Experience: 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.

Expertise: In physical metallurgy, micro structural analysis, scanning electron microscopy, welding metallurgy, failure analysis.



Mr. Ketan Upadhyaya

Education: BE in Metallurgical engineering, PGD in computer science.

Experience: He has experience of 25years in the field of NDE, Acoustic emission techniques, Vibration measurement and signature analysis, Failure Investigations, microstructure interpretation, Scanning electron microscopy and digital imaging system

Expertise: 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

Mr. Nikhil Sabhaya

Education: He is a post graduate in Metallurgy.

Experience: He is having hands on experience in Industries in the field of Boiler RLA NDT for more than 5 years. He is an ASNT level III in MT, PT testing. His in hand experience in NDT field and understanding of various national & international codes is useful in formulating test procedures for various testing activities.

Expertise: He has working experience in NDT testing at various Power projects, Petrochemicals, Refineries, Structural and Automobile Industries. Independently, He can train, perform and witness , MPI and LPT. He has an expertise in NDT and the application of various NDT methods for solving problems of Industry.



Payment Details

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