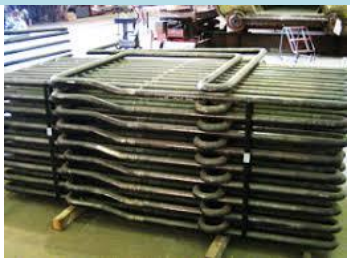
Two-days Intensive training on "Boiler tube failures interface between Operation & Maintenance"






Dates: 25th & 26th May, 2018. **Time**: 9:00 am to 6:00 pm.
Venue: Evolve - by TCR, 215 Pancham Icon, Nr. D-mart, Vasna Road, Vadodara, Gujarat.

Course Objective:

- Understanding will be developed for different damage mechanisms prevailing in boiler tube failures**.**
- Gain a valuable working understanding of fundamental principles of degradation that occurs in short term and long-term operation of boilers.
- Knowledge to increase the problem-solving attitude and take the first-hand judgment on the boiler tube failures**.**
- Attitude to analyse the difference in metal behaviour helps to decide better mitigation to the persistent boiler tube failure.
- Recognize general procedures, techniques and precautions in failure analysis and how stress systems relate to fracture of ductile and brittle materials.
- Achieve the knowledge required to conduct or supervise basic failure investigation and effectively communicate with metallurgists & other experts on more complicated cases. Invention to improve reliability of company operations, cost savings, increase profitability, and enhance

Who should attend?

- Mechanical Engineers of middle management level
- Maintenance / Inspection Engineers
- Boiler inspectors / Process engineers
- Plant Engineers / Managers
- QA / QC Engineers
- Reliability Engineer
- Metallurgical / Materials Engineers
- HAZOP Engineers / Managers
- Other Technical, Laboratory, Sales Personnel, Engineer from other disciplines, management and administrative staff who need a working understanding of metals and their applications.

Registration:

The course is limited to 20 participants only and will be decided on first come first served basis. Interested candidates can register by filling attached registration form. The course fee includes participation, course material and stationery. Tea / coffee and working lunch will be served. Participants have to make their own arrangements for accommodation and local conveyance. The course fee is non-refundable; however, in the event of cancellation of training program by TCR for some unavoidable reasons, it will be refunded. TCR accepts the change in nomination.

Course fee:

Single participant: Rs. 15,000.00 for Indian delegates & USD 450 for Foreign delegates.
GST @ 18.00 % applicable on above fees.
10% discount on if there are three or more participants from same organisation.

Payment mode:

Interested participants should mail/ E-mail the registration form along with DD/at par cheque in favour of "TCR ADVANCED ENGINEERING P LTD." at the address mentioned in attached registration form.

Forward your Registration forms to:
Mr. Rajesh Kumar,
HOD - Training
TCR Advanced Engineering Pvt. Ltd., 250/9 GIDC, Makarpura, Vadodara, Gujarat. Ph: 0265-2657233, 7574805594-96
Email: rajesh@tcradvanced.com
Mobile: +91 7574801050

Registration form can be downloaded from our website:
http://tcradvanced.com/coursecalender.php

For more course details, check our FB page: -
https://www.facebook.com/EvolveTCR/

TCR Advanced Engineering P. Ltd.

Experts in failure Investigation, in-situ metallography, RLA and FFS

Faculty:

Mr. Paresh Haribhakti

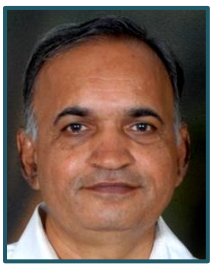
MD, TCR Advanced

- He has over two decades of experience in the field of metallography and microstructure examination and has solved more than 3000 industrial problems. He is pioneer in promoting in situ-metallography.
- Solved materials engineering problems and performed failure analysis on components from petrochemical plants, oil and gas transmission pipelines, offshore structures, ships, pharmaceutical plants, food processing equipment, gas turbine engine components, and weldments.

Mr. Ketan Upadhyay

GM – Reliability Engineering
TCR Advanced

- He has experience of 26 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.



Mr. M. N. Patel

Ex. Associate professor,
Metallurgy & Materials Engg Dept.
Consultant – TCR Advanced

- He has 35 years of teaching experience in UG and PG level in subjects like Plastic Deformation of Metals, Mechanical Metallurgy, NDT and Failure Analysis, Mechanical behaviour of materials, Selection of Materials and Failure Analysis, Physical Metallurgy and Welding Metallurgy.
- He has Published 16 research papers in various national journals in the field of weld ability of steels, corrosion of steels, sensitization of stainless steels and failure analysis.

Mr. Sandeep Singh

NDT Manager Level III
TCR Advanced

- He is qualified as NDT Level III in in M.T., P.T., U.T., R.T. and E.T.
- Fully Conversant with various codes such as ASME (Sec V, Sec VIII, Sec IX, ASME B31.1, B313.3, code case 2235), API 653, structural BS codes etc.
- Having more than 5 Years of experience in NDT and Quality Control at various Power projects, Petrochemicals, Refineries, Structural and Automobile Industries.

Key Benefits:

- ✓ Understanding different damage mechanisms prevailing in boiler tube failures.
- ✓ Gaining knowledge to increase the problem-solving attitude.
- ✓ Gaining knowledge to analyse the difference in metal behaviour helps to decide better mitigation to the persistent boiler tube failure.
- ✓ Gaining the knowledge required to conduct or supervise basic failure investigation and effectively communicate with metallurgists & other experts.

Training Sessions
Topics
Materials & Metallurgy
Damage Mechanism of Boiler Tube
Water Chemistry
Boiler Inspection
NDT techniques for Boiler Tube Components
Erosion Problem
Case studies of Failure Investigation of Boiler Tube
TCR lab Visit & Question Answer Session