

# Two Day Intensive training on “Damage mechanisms for static equipment for refineries /petrochemical/ fertilizer and process industries”



**Date:** 20<sup>th</sup> & 21<sup>st</sup>  
September, 2019  
**Venue:** Evolve by  
TCR, 215 Pancham  
Icon, Nr. D-mart,  
Vasna Road,  
Vadodara, Gujarat.



## **Course Objective:**

To highlight damage mechanisms monitoring & mitigation for refineries, petrochemicals, fertilizers & process industries sector in India.

To bring awareness on integrity of equipment & improve work knowledge among these sectors.

## **Why reliability of static equipment is so important?**

- ✓ Huge loss of product & production
- ✓ Higher maintenance cost
- ✓ Affects the on-stream service factor
- ✓ To avoid emergency shutdown
- ✓ To increase equipment life

## **Who should attend?**

- ✓ Engineers of middle management level
- ✓ Maintenance / Inspection Engineers
- ✓ Process engineers
- ✓ Plant Engineers / Managers
- ✓ QA / QC Engineers
- ✓ Reliability Engineers/ RBI Engineers
- ✓ Metallurgical / Materials Engineers
- ✓ HAZOP Engineers / Managers
- ✓ All inspection/ NDT/ RBI experts & head of department

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. 30,000.00 for Indian delegates & USD 580 for Foreign delegates.  
GST @ 18.00 % applicable on above fees.

## **Payment mode:**

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

## **Forward your Registration forms to:**

**Mr. Rajesh Lakhnotra**, HOD - Training  
TCR Advanced Engineering Pvt. Ltd., 250/9 GIDC, Makarpura,  
Vadodara, Gujarat. Ph: 0265-2657233, 7574805594-96  
Email: [evolve@tcradvanced.com](mailto:evolve@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/>

## **Registration:**

The course is limited to 25 participants only and participation will be decided on first come first served basis. Interested participants can



## Faculty:



### **Mr. Paresh Haribhakti**

MD, TCR Advanced

Authored the book titled as “Failure Investigation of Boiler Tubes”.

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 34 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.



### **Dr. P B Joshi**

Professor  
Metallurgical & materials MSU- Baroda  
Consultant, TCR Advanced

Authored the book titled as “Failure Investigation of Boiler Tubes”.

Dr. P B Joshi is a professor in department of metallurgical and materials engineering, Faculty of technology and engineering, Maharaja Sayajirao University, Vadodara. He is a Ph. D. in material engineering.

- Dr Joshi is having more than 25 years of teaching experience in the field of metallurgy. He has more than 50 research publications in international journals & national journals, and authored a book titled “Materials for Electrical and Electronic Contacts”.



### **Dr Mukesh Pandya**

TCR Advanced Corrosion expert

- Mukesh Pandya is Ex-DGM (Research) from Gujarat State Fertilizer Company (GSFC) Limited, India’s premier fertilizer company. He is having a Ph.D. in corrosion from Gujarat University.

- He has more than 25 years of experience in corrosion evaluation, materials selection, failure investigation and online corrosion monitoring in chemical, petrochemical and fertilizer industries. He possesses in-depth knowledge on various forms of corrosion.
- His is having vast experience in conducting laboratory and field experiments on corrosion measurements as per national and international standards. He has been a member of National Association of Corrosion Engineers (NACE) USA, for 8 years.
- He has provided consultancy services to many industries in India and also successfully carried out international collaborative projects with M/s Avesta, Sweden, M/s Krupp VDM Germany and M/s Cormon UK.

