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

Two days intensive training program on “Corrosion Control Management – Engineering Approach”

Dates: 14th & 15th April, 2017  
Timings: 9:30 am to 6:00 pm.  
Venue: Evolve - by TCR, 215 Pancham Icon, Nr. D-mart, Vasna Road, Vadodara, Gujarat.

Course Need:
Corrosion control management is an integral part of engineering disciplines associated with the design, assurance, and verification functions that ensure a product, process, or system meets its appropriate and intended requirements. Application of these disciplines should not adversely impact a program, but should in fact minimize cost, schedule, technical, and legal risks and improve the overall life cycle cost. It is also considered as the discipline and profession of acquiring and applying scientific, mathematical, economic, social, legal and practical knowledge to the assurance, and verification functions that ensure a product, process, or system meets its appropriate and intended safety, legal, and business requirement(s). The role Corrosion control management has been placed under increased scrutiny. Not only can a well-managed programme help operators identify and reduce safety risks before they escalate, but focusing on asset integrity can also play a major role in both achieving operational excellence and extending the life of ageing assets.

Topics to be covered:
- Corrosion management, Corrosion control measures
- Design, Material Selection
- Fabrication processes, Corrosion Inhibition
- Coatings, Surface modification techniques
- Electrochemical protection, Corrosion Monitoring
- Prediction and assessment of corrosion
- Fitness-for-service methodologies
- Laboratory simulation and corrosion testing

Who should attend?
- Mechanical Engineers of middle management level
- Maintenance / Inspection Engineers
- Process engineers/ Design engineers
- Plant Engineers / Managers
- Other Technical, Laboratory, Sales Personnel, Engineer from other disciplines
- Management and administrative staff, who needs a working knowledge and understanding of metals and their applications

Registration:
The course is limited to 25 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
10 % discount in case of 3 or more participants from same organization. Service tax @ 15.00 % 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 P LTD.” at the address mentioned in attached registration form.
Faculties:
This course will be conducted by renowned experts with vast experience in Corrosion control Management. Course faculty includes,

Mr. Paresh Haribhakti  
**MD, TCR Advanced.**
- He has over two decade of experience in the field of metallurgy and microstructure examination and has solved more than 3000 industrial problems. He is pioneer in promoting in-situ-metallurgy.
- Has intensive work experience to his credentials, 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.
- Served as a principal team member in conducting the study on high temperature electrochemistry of stainless steel for thermo nuclear reactors, a project led by France along with 8 countries consortium. His command and grasp of complex engineering theory, turns into easy to understand and useable concepts to technical audience, with simple analogies, every day examples, and laymen terms to explain data and findings to clients, corporate executives, government officials or attorneys.
- He has specific experience in welding, heat treating and materials technology for oil & gas drilling and production applications, including production tubing, casing and down hole motor failures.
- He is skilled in the use and application of scanning electron microscopy (SEM) in support of failure analysis and fracture identification
- His research oriented creativeness, spearheaded the development of a powerful image analysis software - Microstructure Characterizer Software (MiC). He has also developed a well-respected Chemical Composition Mapping method for identification of Dilution In Weld Zone
- He is the recipient of Gold Plaque from IIM. He is a Founder member of Metallography Society of India. He is member of the Institute of Engineers, Institute of Foundry Man, Indian Institute of Metals and Indian Institute of Welding.
- He is B.E. (Metallurgy) and M.E. (Materials Technology) from M.S. University, Vadodara.

Mr. M. N. Patel  
**Ex. Associate Professor**
Metallurgy & Materials Engg Dept.  
M. S. University of Vadodara
- He has 33 years of teaching experience in UG and PG level in various 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.
- He is B.E. (Metallurgy) & M.E. (Metallurgy) from M.S. University, Vadodara.
- He is the Life Member of Indian Institute of Metals, Indian Institute of Welding & Indian Society for Technical Education.
- He is doing Consultancy work related to material characterization including properties correlation with microstructures, Failure investigation of various components, Welded structures, Defect analysis By SEM and EDS System.

Dr. G. H. Thanki  
**Director and Principal Consultant**
Corrosion Control & Monitoring Consultancy  
**President**  
Corrosion - Audit & Management  
TCR Advanced Engineering Pvt. Ltd.
- He brings over 40 years of experience in Corrosion Technology, including 15 years in senior leadership roles as Corrosion Management Advisor to Corporate World.
- He has > 65 Technical Papers and served as Corrosion Consultant to The World Bank, UNIDO and a few European Companies. Conducted Training Programmes encompassing a wide spectrum of corrosion engineering field to > 60 corporate in India and Abroad. Chaired and convened Technical sessions in National and International conferences.
- Conducted corrosion survey and corrosion audit of process plants and visited USA, Europe, China, Middle East, Japan in relation to corrosion control activities like collaborative research programme, consultancy, training, technical conference and invited talk.
- He is the recipient of “GOLD PLAQUE from Indian Institute of Metals, GOLD MEDAL FOR INDIA”, from ABI, Inc., USA, honoured by ‘LIFE TIME ACHIEVEMENT AWARD’ from NACE, Recipient of ‘INDIAN ACHIEVERS AWARD FOR INDUSTRIAL DEVELOPMENT’ from IEDRA by The Vice President of India, Invited Member of CII- NATIONAL CORROSION MANAGEMENT COMMITTEE, on the board of Global Energy Talent as the corrosion consultant, Invited as an arbitrator to ICC, France.

Mr. Roushan Kumar  
**Training In-Charge,**  
TCR Advanced Engineering Pvt. Ltd., 250/9 GIDC, Makarpura, Vadodara.  
Ph: 0265-2657233, 7574805594-96  
Email: roushan@tcradvanced.com

Registration form can be downloaded from our website:  