

Three days Intensive training program on “Fitness for Service of Equipment and Piping per API 579 and ASME FFS1”



Date: 21st to 23rd November, 2019

Timing: 9:00 am to 6:00 pm

Venue: Evolve by TCR, 215 Pancham Icon, Nr. D-mart, Vasna Road, Vadodara, Gujarat.

Course Objective:

This Training program covers understanding of damages which may happen to equipment and connected piping while it is under fabrication, handling, erection and in prolonged service. Service exposures for a longer duration pose challenges to equipment safety and integrity. The damaged and defects are detected during regular inspection at different stages.

Fitness-For-Service (FFS) assessments are required through engineering analysis to demonstrate the structural integrity of components containing flaw or damages. The guidelines provided in API 579/ASME FFS-1 are used to make run-repair-replace decisions of pressurised components after inspection, if they can continue to operate safely. Recommended practice as presented supplement and augment requirements and decisions while implementing inspections as per API 510, API 570 and API 653.

The course will cover situations encountered in pressure vessels, heat exchangers, tanks and connected piping in refining and petrochemical industry.

Course Outlines:

The program shall cover the following areas:

Day-1

- Session 1: Understanding of Process Plant System under Analysis.
- Session 2: General Flaw and Damage Mechanism
- Session 3: Assessment of Equipment and Piping for Brittle Fracture
- Session 4: Assessment of General Metal Loss

Day-2

- Session 5: Assessment of Local Metal Loss
- Session 6: Assessment of Pitting Corrosion
- Session 7: Assessment of Blisters and Laminations
- Session 8: Assessment of Weld Misalignment and Shell Distortions

Day-3

- Session 9: Assessment of Crack-Like Flaws (Part 1)
- Session 10: Assessment of Crack-Like Flaws (Part 2)
- Session 11: Assessment of Fire Damage
- Session 12: Thickness, MAWP, Stress Evaluation for FFS Assessment

Who should attend?

- Experienced Professionals who wish to brush up their knowledge and stay abreast with the latest in the industry.
- Engineers and Technologists and fresher from varied technical background interested in learning more about Welding technology, Quality Assurance, Inspections and Evaluation of Weld Defects.

Registration:

The course is limited to **25 participants** only and participation will be decided on first come first served basis. Interested participants 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. 45,000.00 for Indian delegates & USD 800 for Foreign Delegates.
GST @ 18.00 % applicable on above fees.

Payment mode:

Interested participants should post/ 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.

Faculty:

This course will be conducted by renowned expert with vast experience in pipe, vessels and tanks.



Mr. Narendra Kumar Roy

Academic Qualification:

B.Sc. (Engineering)- Mechanical (1st Class), Bihar Institute of Technology, Sindri, Ranchi University, India (Year 1966). Master of Engineering; Specialisation in Mechanical Machine Design; University of Roorkee; India (Year 1968).

Professional Experience:

- Working as Director on the board of Charisma Careers Pvt. Ltd, Vadodara, Gujarat and Technical Expert with Charisma Global Networks Ltd, Auckland, New Zealand.
- Many training programs on Process Equipment Design, Fabrication and Inspection and Piping Design, Inspection and Engineering including failure analysis and corrosion controls were conducted for the benefit of engineers & supervisors in India and abroad (Oman, Qatar, Malaysia, Indonesia and New Zealand).
- Worked as Executive Director of Gramya Research Analysis Institute for its Scientific & Technical Consultancy Division. Worked as Advisor since inception of the organization (since Year 1984). Number of Pressure Vessel Design, Fabrication and Inspection training programs were conducted for the benefit of engineers & supervisors in India and abroad (Oman, Qatar).

Awards & Prizes:

- Received the President of India Cash Prize instituted by the Indian Society of Theoretical & Applied Mechanics, Kharagpur for the best paper presented at the annual conference in Surat 1977.

Publications / Seminars & Conferences

Organized:

- 120+ papers had been published in various National and International Technical Journals / Proceedings of the seminars and conferences and presented at different forums for training of engineers. Main subjects covered related to pressure vessels designs & Inspection as per ASME Code.
- Co-authored two books as published by Projects & Development India Ltd., Sindri;
 - : Engineering Manual - Valves
 - : Thermal Insulation

Forward your Registration forms to:

Mr. Rajesh Lakhnotra

HOD - Training

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Registration form:

<http://tcradvanced.com/coursecalender.php>

More details:

<https://www.facebook.com/EvolveTCR/>