



**Date:** 13<sup>th</sup>- 16<sup>th</sup> June, 2018.

**Timing:** 9:00 am to 6:00 pm.

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

### Course Objective:

- ✓ In this training program, understanding will be developed for Magnetic Particle Testing techniques with practical demonstration.
- ✓ To gain a valuable working understanding of use of non-destructive technique with respect to the anticipated flaw.
- ✓ To recognize the requirement of training and certification of NDT personnel and requirements of non-destructive testing laboratory.
- ✓ To acquire the knowledge required to conduct or supervise basic non-destructive testing and effectively communicate with metallurgists & other experts on more complicated cases. Invention to improve reliability of company operations, cost savings, increase profitability, and enhance competence.

### Course Content:

- ✓ Historical background
- ✓ Theoretical considerations
- ✓ Equipment for ultrasonic applications
- ✓ Techniques
- ✓ Introduction to American and British codes
- ✓ Discussion of Level I and II questions in ASNT
- ✓ General mock test and discussion
- ✓ Advantages and limitations.
- ✓ Practical training on latest equipment.

### Who should attend?

- ✓ NDT technicians
- ✓ Engineers of junior management level
- ✓ Fresh /Junior inspection engineers
- ✓ Trainee process engineers
- ✓ Trainee plant engineers / Managers
- ✓ QA / QC Engineers
- ✓ Metallurgical / Materials Engineers
- ✓ Other Technical, Laboratory, engineers from other allied disciplines, management and administrative staff who need a working understanding of NDT and their applications.

### Registration:

The course is limited to 15 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 will be served. Participants have to make their own arrangements for lunch, 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. 7,000.00 for Indian delegates & USD 200 for Foreign delegates.

10 % discount in case of 3 or more participants from same organization. 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 P LTD." at the address mentioned in attached registration form.

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

**Mr. Rajesh ,**

HOD - Training

TCR Advanced Engineering Pvt. Ltd.,  
250/9 GIDC, Makarpura, Vadodara, Gujarat.

Ph: 0265-2657233, 7574805594-96

Email: [rajesh@tcradvanced.com](mailto: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/>

## Faculty:

The course will be conducted by renowned experts with vast experience in respective field. Course faculty are:



### Mr. Sandeep Singh

NDT Manager Level III  
TCR Advanced

- He is qualified as NDT Level III 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



### Mr. Kamlesh Rana

Technical Manager  
TCR Advanced

- He has vast experience of fabrication and forging fields.
- He is qualified internal auditor for ISO 9001 and has handled API audits.
- He headed quality and assurance department of various forge shops.



### 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. Gopul Patel

GM, TCR Advanced

- He has an extensive knowledge of vacuum technology and has worked as Scientific Officer at department of science and technology sponsored research centre.
- He is qualified as NDT level II in M.T., P.T., U.T. and E.T.
- He has experience of various advanced methods of material characterization and has worked extensively in the field of microscopy.
- He is actively involved in establishing new testing facilities at TCR lab as well as on site.

### Key Benefits:

- ✓ Working understanding of use of magnetic particle NDT techniques
- ✓ Gaining the knowledge required to conduct or supervise MPT
- ✓ Understanding the calibration techniques
- ✓ Understanding the inspection techniques
- ✓ Understanding the advantages & limitations of magnetic particle testing

### Training Sessions

#### Topics

History

Theories

Equipment for ultrasonic applications

#### Techniques

Introduction to American and British codes

Discussion of Level I and II questions in ASNT

Advantages and limitations.

Practical training on latest equipment