

## One-Day Training Programme on Welding Metallurgy of Stainless Steels & Nickel-Based Alloys-Good Engineering Practice for Welding SS & Nickel alloys



28th  
March, 2026

Evolve by TCR  
215, Pancham Icon,  
Vasna Road, near D-Mart,  
Vadodara, Gujarat 390007

Fees: INR 5,000/-  
for single person +  
GST 18% extra.

10% Discount on total  
amount of invoice for 03  
or more nominations from  
the same organization.

### Course Content

- Welding Behaviour of Stainless Steels and Nickel-Based Alloys.
- Role of Ferrite Content in Austenitic and Duplex Stainless Steels.
- Hot Cracking, Weld Sensitization, and Intergranular Corrosion (IGC).
- Pitting Corrosion and Stress Corrosion Cracking (SCC).
- Selection of Welding Consumables for SS, DSS, and Inconel 625.
- Application of Schaeffler and WRC-1992. Diagrams for Weld Metal Analysis.

### Who Should Attend

- Welding Engineers and Metallurgists
- Welding Procedure Qualification Specialists
- Corrosion Engineers and Materials Specialists
- QA/QC Professionals and Welding Inspectors
- Production and Fabrication Engineers
- Plant Maintenance and Reliability Engineers
- Professionals from EPC contractors and fabricators
- Welding Educators and Trainers
- Postgraduate Students and Research Scholars in Metallurgy and Welding Technology

### Objectives of the Training Programme:

- Develop a comprehensive understanding of the metallurgical behaviour of stainless steels and nickel-based alloys during welding, including phase transformations and microstructural evolution in the weld and heat-affected zones.
- Learn advanced strategies to mitigate welding challenges such as hot cracking, sensitization, intergranular corrosion (IGC), and loss of corrosion resistance in critical alloy systems.
- Apply metallurgical insights to formulate and execute best practices for welding austenitic, duplex, and nickel alloys to ensure weld integrity and long-term performance.
- Gain the ability to implement robust quality control measures, including selection of appropriate welding consumables, heat input control, and post-weld evaluation techniques, in line with international codes and fabrication standards.

# Meet The Faculty



## Subject Matter Expert (Another Faculty)

- He holds an M.E. in Metallurgical Engineering and a Ph.D. in Welding Technology, with over 15 years of expertise in welding consumable testing, selection for similar/dissimilar metals, and welding procedure qualification. He is proficient in advanced welding processes including SMAW, GTAW, GMAW, SAW, Pulse TIG, Plasma TIG, Activated TIG, and WAAM, and is a recognized expert in induction heating for pre- and post-weld heat treatment. With deep insight into welding metallurgy and heat-affected zone behaviour, he has trained professionals across industries on ASME Section VIII Div. 1, ASME IX, and EN/ISO 15614-1 & 9606-1 standards. His unique ability to connect metallurgical theory with practical applications makes him a highly respected trainer in welding technology and heat treatment practices.

## Mr. M.N. Patel

- BE & ME in Metallurgy. Has 33 years of teaching experience in UG and PG level in subjects like Plastic Deformation of Metals, Mechanical Metallurgy, NDT and Failure Analysis, Mechanical behavior of materials, Selection of Materials and Failure Analysis, Physical Metallurgy and Welding Metallurgy.
- He holds expertise in physical metallurgy, micro structural analysis, scanning electron microscopy, welding metallurgy, failure analysis.

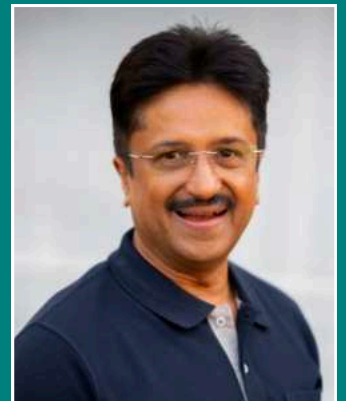


## Subject Matter Expert (Another Faculty)

- He holds a Ph.D. in Metallurgical Engineering and is a certified International Welding Technologist (IWT), BS EN ISO 14731 Welding Coordinator, and BS EN ISO 3834 Auditor. With over 12 years of specialized experience in welding training, he brings deep technical knowledge in welding metallurgy—particularly of stainless steels and dissimilar metal combinations. He is highly proficient in international welding standards, including ASME Section VIII Div. 1, ASME IX, EN ISO 15614-1, ISO 9606-1, ISO 14732, and AWS D1.1. Known for his clarity in interpreting welding codes and qualification processes (WPS-PQR-WPQ), he has successfully trained engineers, inspectors, and coordinators across industries. His strong academic foundation and code-based expertise make him an authoritative trainer in welding metallurgy and compliance-driven welding practices.

## Mr. Paresh Haribhakti, MD

- He holds a post-graduate degree in Materials Technology from M.S. University, providing him with a solid academic foundation in metallurgy and materials science. With a leadership role at TCR Advanced Engineering Services, he has accumulated extensive experience in metallurgical engineering, and has solved over 9000+ industrial challenges. He is expert in risk mitigation and management. He has also developed innovative tools for asset management and reliability enhancement, specifically tailored to the needs of critical infrastructure in the fertilizer and chemical industries.
- Paresh has authored 'Failure Investigation of Boiler Tubes: A Comprehensive Approach', published by ASM International, USA. His commitment to advancing knowledge and expertise is evident through his active participation in global conferences and contributions to leading metallurgical journals. He is an acclaimed expert for damage mechanism of oil & gas, refinery, petrochemicals, power, fertilizers. He holds expertise in inspection of fertilizer and petrochemical tanks



## For NFET/ RTGS/ Bank transfer:

**Account No:** 05730400000034  
**IFSC:** BARB0INDMAK (5th letter is zero)  
**Bank:** BOB, Makarpura Branch  
**Merchant Name:** TCR ADVANCED ENGINEERING PVT LTD  
**UPI ID :** tcrad93762@barodampay



QR code for payment