




Two-Day Training Programme on Cathodic Protection Systems & Routine Monitoring, Maintenance, and Coating Integrity Surveys (CIPS, DCVG, CAT, A-Frame)



- 
10th & 11th Sep, 2026
- 
Evolve by TCR
 215, Pancham Icon,
 Vasna Road, near D-Mart,
 Vadodara, Gujarat 390007
- 
Fees: INR 15,000/-
 for single person +
 GST 18% extra.
- 
10% Discount on total amount of invoice for 03 or more nominations from the same organization.

Course Content

- Fundamentals of corrosion and pre-design site survey to initiate the implementation of Cathodic Protection projects on an EPC basis.
- Design and engineering of a well-planned Cathodic Protection system to protect buried or submerged structures.
- Procurement, installation, and commissioning of the Cathodic Protection system.
- Monitoring and maintenance of the Cathodic Protection system.
- Coating integrity surveys, including CIPS, DCVG, CAT, and A-Frame surveys.
- Q.A. and Feedback.
- Stray current interference: AC and DC interference
- Troubleshooting and rectification measures
- Quiz test and case studies
- Practical

Who Should Attend

- Maintenance Managers/Engineers
- Mechanical and Process Managers/Engineers
- Inspection & Reliability Managers/Engineers
- Plant Managers
- Asset Integrity Managers
- Technical Consultants

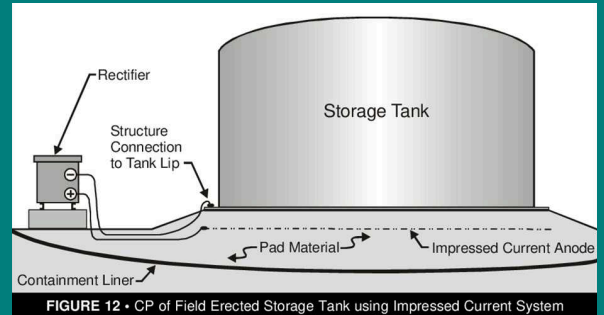
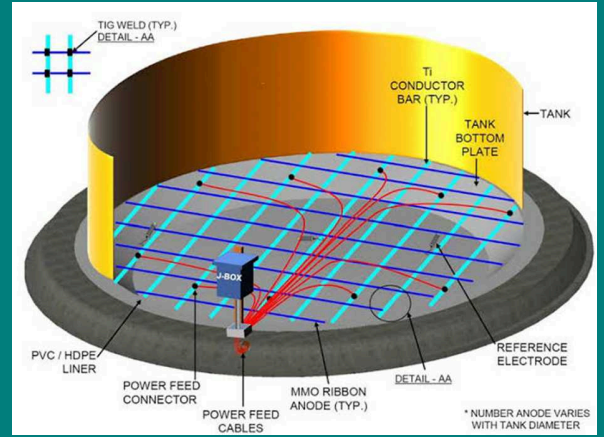
Objectives of the Training Programme:

- **Build a Strong Foundation in Corrosion Control:** Provide participants with a clear understanding of corrosion mechanisms and the fundamental role of cathodic protection (CP) in mitigating corrosion in buried and submerged structures.
- **Conduct Effective Pre-Design Site Surveys:** Train participants to perform site-specific assessments that form the basis for the design and successful implementation of CP systems.
- **Design and Engineer Robust CP Systems:** Equip attendees with the knowledge to develop efficient and technically sound CP systems tailored to project and environmental requirements.
- **Ensure Successful Installation and Commissioning:** Guide participants through best practices in procurement, installation, and commissioning to ensure long-term CP system integrity.
- **Implement Routine Monitoring and Maintenance:** Enable participants to apply standard procedures for ongoing monitoring and maintenance, ensuring continued protection performance over the asset lifecycle.

Event Agenda

10th September 2026

- **10 AM to 11:15 AM:** Basic Corrosion Theory: Corrosion cells, Galvanic series, Nernst Equation, Faraday's law, Factors affecting Corrosion, Polarization in a corrosion cell, Reference cells, forms of corrosion
- **11:30 AM to 12:45 PM:** Concept of Cathodic Protection: Sacrificial and Impressed current System, Factors affecting current requirement, Criteria, Polarization, Components of CP system, Power sources
- **12:45 PM to 1:30 PM:** Field tests, measurements and surveys: Errors in potential measurements, Polarization Coupons, Current requirement and coating conductive test, Current measurement, CIPL, CAT and DCVG and ACVG surveys
- **2:30 PM to 3:45 PM:** Interference: Stray current interference due to foreign pipelines and DC traction and mitigation measures, AC interference, Telluric Current, mitigation measures
- **4 PM to 5:30 PM:** CP Design with examples: Sacrificial anode and ICCP system design for transmission pipelines, storage tank bottom, underground tank, inside of storage tank, Types of groundbed and its applications, Remoteness of groundbed, Attenuation and distribution of current



11th September 2026

- **10 AM to 11:15 AM:** Monitoring and troubleshooting: Requirements of monitoring, check list, TRU efficiency, Cased crossings, Troubleshooting chart, Structure depolarization, Anode Polarization, Resistance changes, Power supply changes
- **11:30 AM to 12:45 PM:** Case studies.
- **2:30 PM to 5 PM:** A real time, Practical Demonstration highlighting the various aspects of (CP) applications.

Meet The Faculty



Mr. J.N. Agrawal

Mr. J.N. Agrawal, CEO of Corrsol Tech, has 40+ years' expertise in corrosion control and cathodic protection, CP4-certified, Fellow of ICorr, AMPP awardee (2023), author, and consultant-trainer.



Mr. Paresh Haribhakti

Mr. Paresh Haribhakti, MD of TCR Advanced Engineering, is a globally recognized expert in metallurgical failure analysis with 9000+ investigations, key ASM/ASME contributions, and creator of AiOM™ platform.



Mr. Chiral Patel

Mr. Chiral Patel specializes in oil & gas inspections, safety, and corrosion management, with expertise in CP systems, industrial coatings, soil surveys, commissioning tests, and water quality analysis.

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