



# IN-CORR-TECH LTD.

## Inspection, Metallurgical, Quality Control & Design

# ENGINEERS



- ENGINEERING DESIGN & FINITE ELEMENT ANALYSIS • PLANT TURNAROUND INSPECTIONS • FAILURE ANALYSIS
- RFT & EDDY CURRENT TESTING • STATUTORY INSPECTIONS • NACE PAINT AND COATING INSPECTIONS
- QA/QC • NDT • ACOUSTIC EMISSION TESTING • REPLICA METALLOGRAPHY • INFRARED THERMOGRAPHY

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### INSPECTION SERVICES

API 510 – Pressure Vessel Inspections  
API 570 – Piping Inspections  
API 653 – Aboveground Storage Tank Inspections & Calibrations  
API 579 – Fitness for Service Assessments  
Eddy Current/Remote Field Testing (RFT)  
Load Testing & Inspection of Off-Shore Containers (in accordance with BS EN 12079 / DNV 2.7-1)  
Tank Calibration & Tank Crawler Inspections  
Tank Bottom Magnetic Flux (MFL) Testing  
Welding Inspections & Certification (AWS Certified Welding Inspectors)  
NACE Coating Inspections  
Control of Temporary Equipment/ Pre-Mobilization Inspections (Through Affiliate Companies)  
Crane Inspections (INCLUDING ALL MECHANICAL LIFTING DEVICES & ASSOCIATED WIRE ROPE.)  
Rigging/Lifting Accessories (Slings, Shackles, Wire Rope, Spreader Bars, etc.)  
IRATA Rope Access Inspection  
Helium Leak Detection – Helium Mass Spectrometer  
QA/QC Inspection Services

### NON-DESTRUCTIVE TESTING

Magnetic Particle Inspection (MT)  
Liquid Penetrant Testing (PT) (Dye & Fluorescent)  
Ultrasonic Testing (UT) (Thickness, Compression, Shear, Phased Array); ROBOTIC CRAWLER AVAILABLE.  
Eddy Current Testing (ET) & Remote Field Testing (RFT)  
Infrared Thermography Testing (IR)  
Borescope Inspection  
Paint & Coating Inspection (NACE Level 1 & 2 Inspectors)  
Acoustic Emission Testing (AE) (of storage tanks, vessels, cylinders, hydrogen and nitrogen bullets, etc.)  
Vacuum Leak Testing of tubes for heat exchangers, chillers, evaporators, condensers & above ground storage tank floor sheet welds.

### STATUTORY INSPECTION

Boilers, Pressure Vessels, Air Receivers, LPG Cylinders  
Cranes, Lever Hoists & Chain Blocks in addition to Rigging & Lifting Accessories  
Elevators, Material Lifts, Aerial Lifts & Forklifts  
Relief Valve Certification  
Mechanical Equipment

### ENGINEERING - ROOT CAUSE FAILURE ANALYSIS (RCFA) / METALLOGRAPHY

Root Cause Failure Analysis of Various Mechanical and Process Equipment  
Replica Metallography  
Scanning Electron Microscopy (SEM)  
X-Ray NanoAnalysis  
Optical Emission Spectrometry (OES)  
Positive Material Identification (PMI)  
Optical Microscopy  
Stereoscopy  
Fractography  
Hardness & Microhardness Testing  
Vibration Analysis under hardness & Microhardness Testing.

### PHILANTHROPY

In-Corr-Tech Employees Charitable Foundation

### ENGINEERING - DESIGN

Engineering Steel Design  
Finite Element Analysis (to determine load bearing capacity)  
Design of Offshore Containers (CCU's) to BS EN 12079 / DNV 2.7-1  
Vertical Impact Testing (Drop Test Simulations)  
Mechanical Integrity Checks (to determine load bearing capacity of existing structures.)  
Engineering Drawings  
Prototype Designs for Custom Equipment  
Process Plant Layout & Equipment Design

### EQUIPMENT CALIBRATION

Pressure Calibrations  
Dimensional Calibrations  
Weight Verification  
Paint & Coating Inspection Equipment Calibration  
Torque Calibrations  
Temperature Calibrations

### TECHNICAL TRAINING

Rigging, Lifting & Safe Lifting Practices  
Off-Shore Crane Operators (Pedestal & Barge Mounted)  
Mobile & Tower Crane Operators (Telescopic, Rough-Terrain, Crawler, Lattice)  
Overhead Travelling & Articulating Boom Crane Operators  
Articulating Boom Crane Operators  
Forklift/Excavator/Backhoe/Tractor Operators  
Scaffolding and Scaffolding Safety  
Magnetic Particle & Liquid Penetrant Testing  
Practical Interpretation of Microstructures  
Interpretation of Industrial Radiography Films  
Material Selection, specification, properties and ordinary practices  
Material science and metallurgy  
Heat treatment and stress relieving materials  
Engineering design, finish, specification and preparation of materials for End Use  
Welding Procedures and Applications  
Corrosion of metals  
Common engineering standards and applications

### FORENSIC/NANO-ANALYSIS/ CRIME DETECTION

Gun Shot Residue (GSR) Testing  
Fingerprints & Bodily Fluid Analysis  
Accident Reconstruction  
Ballistics Investigation  
Food & Drug Verification  
Illicit Drug Residue Detection  
Arson Accelerant Analysis

### EMPLOYEE BENEFITS

Bursary for University Students  
Housing Grants  
Interest Free Loans to Employees  
Medical Plan  
Pension Plan

