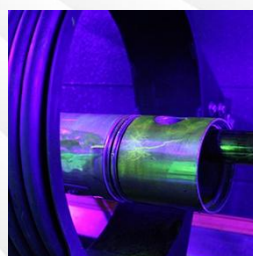
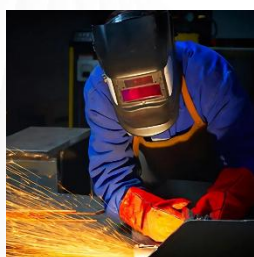


COMPANY PROFILE



NAZAHA
T a f u q

ENABLING A SAFER, COMPLIANT FUTURE

NAZAHA
T a f u q

ABOUT US

Nazaha Tafuq offers advance integrated solutions in every aspect of life through Inspection, Testing, Certification, and Training services to our customers worldwide.

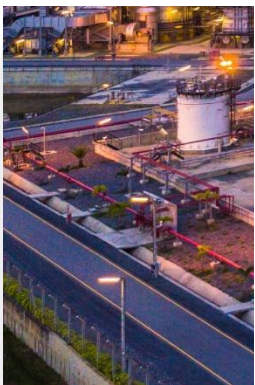
We help organizations meet compliance standards, improve operational quality, & strengthen market credibility. with a focus on integrity, professionalism, & international best practices, we continually innovate to address evolving risks.



OUR MISSION

At Nazaha Tafuq, our mission is to deliver reliable & impartial service that empower organizations to achieve compliance, enhance performance, & build lasting trust.

Guided by our core values of Safety, Quality, Leadership, Teamwork, Accountability, and Continuous Improvement, we are committed to creating sustainable value for our clients, partners, and communities while upholding the highest professional and ethical standards.





ISO 9001:2015 Certified
ISO 14001:2015 Certified
ISO 45001:2018 Certified

OUR VISION

To be the most trusted partner in safe guarding your assets through integrated solution & quality assurance.

CORE VALUES



Protecting people, assets, and the environment.



Delivering excellence with consistency and reliability.



Inspiring progress through vision and integrity.



Achieving success together with respect & collaboration.



Taking responsibility with transparency & ethics.



Growing through innovation & learning.

NAZAHA TAFUQ PORTFOLIO

ASSET INTEGRITY ASSESSMENT

- Pressure Vessels, Exchangers, Columns
- Storage Tanks, Piping etc.
- Routine and Shutdown Assessments
- Fitness For Service Analysis
- Remaining Life Assessment
- Risk Based Inspection
- Damage Mechanism Analysis
- Corrosion Analysis & Prevention
- API 510, 570, 653, 580, 571, FFS, etc.

FAILURE ANALYSIS & INVESTIGATION

- Material & Mechanical Integrity Investigation
- Metallographic Analysis (Macro & Microscopic)
- Fractography & Corrosion Studies
- Root Cause Failure Analysis (RCFA)
- Scanning Electron Microscopy (SEM)
- Reliability & Risk Assessment
- Chemical Composition
- Tensile Testing
- Impact Testing
- Hardness Testing

LIFTING & EARTHMOVING EQUIPMENTS

- Cranes (Mobile, Overhead, Tower, etc.)
- Forklifts, Excavators & Dumper
- Hoists, Winches & Rigging Gear
- Lifting Accessories (Slings, Shackles, Hooks, etc.)
- Safety Harnesses & Fall Protection Systems
- Earthmoving Machinery Inspection
- Inspection of Personal Protective Equipment's

TECHNICAL INSPECTION & MANPOWER SERVICES

- Pre & Post-Shipment Inspections
- Safety Certified Engineers & Inspectors
- Quality Assurance & Quality Control Inspectors
- Certified Welding Inspectors (CSWIP, AWS)
- NDT Level II & III Specialists
- Reliability, Integrity & Maintenance Engineers
- Project Management Support

ELECTRICAL TESTING

- Asset Management and Maintenance Planning
- Power Generation & Transmission Systems
- Transformer Insulating Oil Filtration & Reclamation
- Control Panels, Switchgear & Transformers
- Power Tools Inspection
- Thermographic Inspections & Partial Discharge
- Lamp, Luminaries & AC/DC Control Gear Products
- Protective Relay Testing

CIVIL & MECHANICAL STRUCTURES

- Infrastructure & Buildings Assessments
- Pre-cast Structures
- Industrial structures
- Pit's & Tanks
- Bridge & Silo's
- Mechanical Structures and PEB Sheds
- Calculation Based Analysis
- Software Based Assessment
- Repair and Retrofitting recommendations.
- Telecommunication Towers

NON-DESTRUCTIVE TESTING

- Ultrasonic Thickness Gauging (UTG)
- Ultrasonic Flaw Detection (UFD)
- Magnetic Particle Testing (MT)
- Liquid Penetrant Testing (PT)
- Phased Array Ultrasonic Testing (PAUT)
- Remote Visual Inspection (Drone / Borescopy)
- Holiday & Coating Thickness Testing
- Vacuum Box Testing (VBT)
- Positive Material Identification (PMI)
- Hardness Testing
- Vibration Analysis, Alignment & Balancing
- Infrared Thermography (IRT)
- Acoustic Leak Testing
- Environmental & Particle Analysis
- Stack & Vehicle Emission Testing
- Torqueing & Anchor bolts Testing

CERTIFICATION & TRAININGS

- ASNT NDT Level I & II
- API Preparatory Courses
- Behavioral Safety
- Process & Plant Safety
- Risk Based Inspection
- Welding & Materials
- Defensive driving
- Operator Trainings
- Work at Height & Confined Spaces

CALIBRATION & SURVEY

- Tanks Calibration
- Calibration of Industrial Equipment's
- Instruments and Sensor's Calibration
- Online & Offline PSV, PRV with Test Bench
- Antenna & Attenuator Calibration
- Electrical Fast Transient Generators
- Surge Generator Calibration
- Voltage Probe Calibration
- Out of Roundness & Verticality Analysis
- Water & Oil Analysis



ASSET INTEGRITY ASSESSMENT

Nazaha Tafuq relies upon “continued integrity” and offers a range of asset integrity services. Packages of integrity solutions by implementing integrity management program at plant site. To ensure the asset integrity, we serve to inspect and analyze potentially important assets at a facility to keep at a safe level of operation.

- Pressure Vessels, Columns
- Piping & Heat Exchanger
- Storage Tanks & Columns/Towers
- Fitness For Service Analysis
- Remaining Life Assessment
- Damage Mechanism Analysis
- Corrosion Analysis & Prevention
- Risk Based Inspection

Production of any plant facility is highly dependent upon its equipments because in real meaning these are its assets. So, leading to the importance of these real assets, their health and condition monitoring becomes an unavoidable aspect.

Routine Assessments

Routine assessments save the downtime period of equipment without any production loss and all the inspection activities are performed while in operation. Inservice equipment may be subject to degradation mechanisms like corrosion, cracking.



External, internal, onstream and nonintrusive inspections are normally conducted as a part of routine assessment on defined intervals depending upon codes and standards and actual level of criticality of the equipment. Nondestructive testing (NDT) is used to find metal loss, local or uniform corrosion and defects within a structure. Inspection and NDT data is interpreted by certified personnel.

- Integrity Assessments
- Piping Systemization and Circuitization
- Tank Bottom Evaluation
- Shutdown / Internal Inspection Execution
- Fitness for Service Assessment (FFS)
- Risk Based Inspection (RBI)
- Historical Data Analysis
- Failure and Metallurgical Analysis
- Replica Metallography
- Nondestructive Testing
- Repair and Alteration
- Rerating and Design Calculation
- Tank Survey and Calibration
- Documentation Preparation

Shutdown/Turnaround Assessments

Sometimes planned and occasional turnarounds are taken to better ensue the overall plant integrity and to execute internal inspection, repair or maintenance activities based on past inspection data. Turnarounds are the opportunities where a detailed assessment of the asset can be done and as a result equipment performs well and efficient after completion of an effective turnaround.

Planning and executing inspection and NDT activities during shutdown/turnaround and routine plant operations.

- Health Assessment of Assets
- Complete Inspection and Testing
- Supporting in Maintenance Activities
- Design and Operational Review

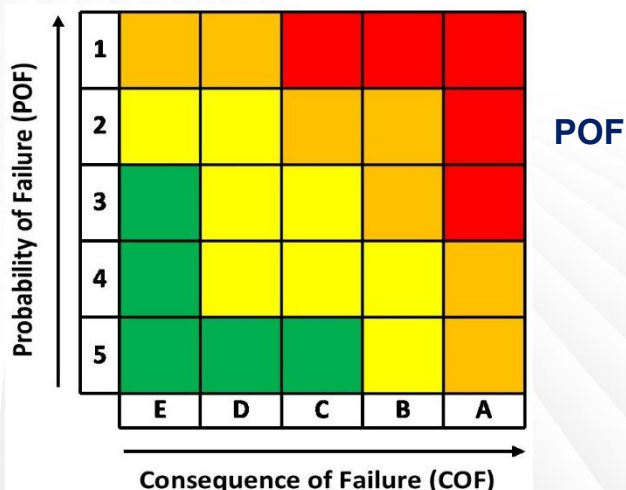


RISK BASED INSPECTION

RBI is a risk assessment and management process that is focused on loss of containment of pressurized equipments in processing facilities due to damage mechanisms.

$$\text{Risk} = \text{POF} \times \text{COF}$$

Risk Matrix



Evaluation

Red	High
Yellow	Medium High
Yellow	Medium
Green	Low
Color	Risk Catagories

- Damage Factor
- Degradation Mechanisms
- Operational and Design Conditions
- Construction, Repair / Alteration History
- Inspection and NDT History
- Corrosion Rate and Remaining Life
- Management of Change

COF Evaluation

- Environmental
- Flammable
- Toxic
- Production Loss
- Financial

Benefits of RBI

- Optimized Inspection Program
- Prioritizing High Risk Assets
- Focused Inspection on High-Risk Areas
- Cost Effective Inspection Plan
- Manpower and Resources Allocation
- Time Saving by Planned Inspection
- Reduces unnecessary, Plant Down Time
- Increased Production Efficiency
- Health and Safety Compliances
- Environmental Compliances
- Safe and Reliable Plant Facilities

How Can We Help

Nazaha Tafuq can help the industry with following important technical and engineering support to develop their RBI program

- Conduct RBI Workshop
- Prepare Asset Registers
- Data Collection and Summarization
- Prepare Data Files for RBI
- Classification of Corrosion Loops
- RBI Components and Piping Circuits
- Prepare Markup Drawings
- POF and COF Evaluation
- Perform Risk Analysis
- Review Risk Categories
- Generate RBI Recommendations
- Prepare RBI Inspection Plan
- Perform Field Inspection and NDT
- RBI Reassessment and Ever Greening



**Civil and Mechanical
Structure Engineering
Services**



CIVIL & MECHANICAL STRUCTURE ASSESSMENT

Existing Civil and Mechanical Structure Inspection (In-service)

In-service inspection of civil and mechanical structures is vital to ensure safety, durability, and compliance throughout the operational life of assets. Our services include detailed evaluation of structures such as buildings, Sheds, PEB & Pre-Cast, silos, bridges, tanks, machinery foundations, and industrial facilities.

By employing conventional inspection methods alongside modern non-destructive testing (NDT) techniques, we assess deterioration, corrosion, fatigue, and load-bearing performance. This allows asset owners to detect hidden risks and prevent costly structural failures.

Our inspections are conducted in line with international codes and standards, ensuring regulatory compliance, improved asset reliability, and extended service life.

Key Factor's

- Structural health monitoring & integrity assessment
- Lifecycle reliability and compliance assurance.
- Calculation and Software based assessment.

Repair & Retrofitting Recommendations

Repair and retrofitting are critical for extending the lifespan of aging civil and mechanical structures. We provide expert recommendations based on detailed inspections, software simulations, and risk-based assessments.

Our solutions include reinforcement of weakened areas, material replacements, protective coatings, and retrofitting to improve load-bearing capacity or adapt to new usage requirements. Client can safeguard investments, avoid premature replacement costs, and meet evolving operational demands.

Key Factor's

- Structural reinforcement & load capacity improvement
- Corrosion protection and crack remediation
- Retrofitting for extended or modified use

Post-Incident Structural Inspection

Accidents, natural disasters, and operational incidents can compromise structural safety. Our post-incident inspections provide rapid, independent evaluations to determine the extent of damage and structural integrity.

Our experts conduct on-site assessments supported by NDT techniques and software modeling, offering clear guidance on whether assets are safe for continued operation, repair, or replacement.

These services are critical for minimizing downtime, ensuring compliance with safety authorities, and enabling swift recovery from incidents.

Key Factor's

- Emergency on-site structural assessment
- Safety clearance for continued operations
- Damage evaluation & repair recommendations

Forensic Assessment of Structure

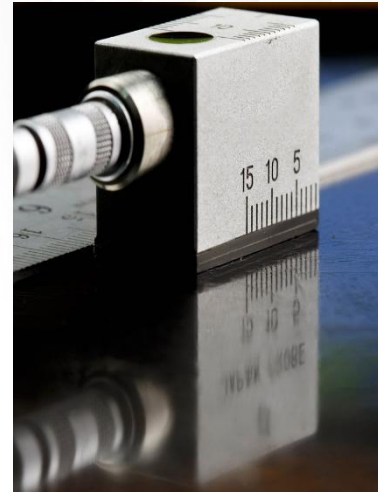
Forensic structural assessment focuses on identifying the root cause of failures, defects, or performance issues in civil and mechanical assets. These investigations are vital for legal, insurance, and compliance purposes, as well as for preventing recurrence.

Our experts apply advanced failure analysis techniques, including metallurgical testing, fracture mechanics, and structural modeling, to determine contributing factors. Findings are documented in clear, evidence-based reports that support decision-making and accountability.

These assessments not only provide clarity after failures but also deliver preventive insights to strengthen future designs and maintenance programs.

Key Factor's

- Root cause investigation of failures or damages
- Evidence-based reporting for legal and insurance needs
- Preventive insights for design and maintenance improvements



NON-DESTRUCTIVE TESTING (NDT)

Non-Destructive Testing (NDT) is a vital discipline in modern industry, providing reliable methods to evaluate the integrity of materials, components, and structures without causing damage. It plays a crucial role in ensuring safety, performance, and compliance across industries such as oil & gas, petrochemicals, power, construction, and manufacturing. By detecting flaws before they develop into critical failures, NDT helps organizations safeguard assets, reduce downtime, and optimize maintenance strategies.

Our NDT services are delivered by certified inspectors in accordance with international standards such as ASNT, ISO, API, and ASME. Using a combination of conventional and advanced techniques, we are able to detect surface and subsurface defects, measure material properties, and assess structural soundness. These services are tailored to client needs, whether during fabrication, in-service inspection, or post-repair validation.

We offer a wide portfolio of NDT methods including

- Ultrasonic Thickness Gauging (UTG)
- Ultrasonic Flaw Detection (UFD)
- Magnetic Particle Testing (MT)
- Liquid Penetrant Testing (PT)
- Infrared Thermography (IRT)
- Positive Material Identification (PMI)
- Phased Array Ultrasonic Testing (PAUT)
- Holiday & Coating Thickness Testing
- Remote Visual Inspection (Drone & Borescopy)
- Acoustic Emission
- Vacuum Box Testing
- Environmental & Particle Analysis
- Stack & Vehicle Emission Testing
- Torquing & Anchor bolts Testing

Each method is carefully applied based on material type, inspection objective, and industry requirement, ensuring accurate and actionable results.

By integrating cutting-edge technology, skilled expertise, and a commitment to quality, our NDT services provide clients with confidence in the reliability of their critical assets. Whether it is ensuring weld quality, verifying pipeline integrity, or monitoring structural performance, we deliver inspection solutions that enhance safety, extend asset life, and ensure compliance with the world's most demanding industrial standards.

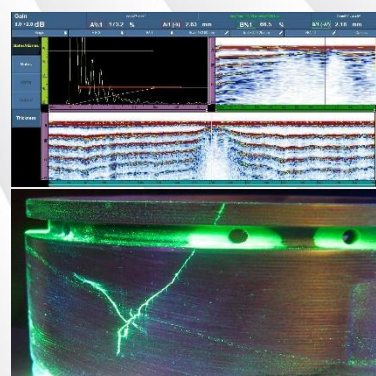
Where Useful

- Construction, Fabrication and Welding
- In-service Plants
- Refineries & Process Units
- Oil and Gas Facilities
- Petrochemical Facilities
- Power Generation
- FMCG's Sector
- Manufacturing & Steel Making
- Cement & Textile Industry

Why NDT

Nondestructive testing integrated with integrity management is very effective and reliable engineering tool for optimization of plant assets. NDT applications are useful tools in onstream inspection to increase the uptime of in-service equipment.

NDT gives the information about equipment's health while it's in-service operation. So, there is no need to shut down the equipment.





TECHNICAL MANPOWER SERVICES

We provide highly skilled and certified technical manpower to support inspection, construction, maintenance, and project execution across industries. Our manpower services are designed to bridge competency gaps, ensure compliance, and deliver cost-effective solutions that meet client requirements.

Our personnel are carefully selected, trained, and certified according to **international codes and standards (API, ISO, AWS, ASNT, NEBOSH, etc.)**, ensuring they bring both technical expertise and global best practices to every assignment. Whether deployed for short-term projects, shutdowns, or long-term placements, our specialists integrate seamlessly with client teams to achieve operational excellence.

By offering flexible manpower solutions, we enable organizations to optimize resources, maintain high-quality standards, and complete projects safely, on time, and within budget.

Key Manpower Categories

- QA/QC Specialists
- Welding Specialists
- QHSE Specialists
- Certified Inspection Personnel



QA/QC Specialists

Our QA/QC Specialists ensure that projects meet the highest standards of quality and compliance. They are experienced in inspection planning, documentation, and execution in line with international codes such as ASME, API, and ISO. By maintaining strict oversight on materials, fabrication, and construction activities, they help minimize rework, reduce costs, and deliver flawless outcomes.

Welding Specialists

Our Welding Specialists are certified professionals with deep expertise in welding inspection, procedure qualification (WPS/PQR/WPQ), and materials testing. They ensure that welding processes, consumables, and techniques conform to global standards like AWS, ASME, and API. With their guidance, clients benefit from enhanced weld integrity, reduced defects, and improved structural reliability.

QHSE Specialists

QHSE Specialists play a key role in building and maintaining a culture of safety, quality, and environmental responsibility. Certified in NEBOSH, IOSH, and OSHA standards, they provide hands-on support in hazard identification, risk assessments, and compliance management. Their presence ensures safe workplaces, reduced incidents, and adherence to both local and international safety regulations.

Certified Personnel

We provide a pool of certified personnel covering ASNT Level I & II, API Inspectors, AWS Welding Inspectors, ISO Auditors, and other industry-recognized qualifications. These professionals bring proven technical knowledge and practical field expertise, enabling clients to meet inspection, certification, and operational requirements with confidence. By deploying certified manpower, we ensure accuracy, reliability, and trust in every project.



METALLURGICAL ANALYSIS

Metals are one of the key important units in any plant facility due to its unique properties of strength and durability. However, metals also tend to deteriorate due to exposure with external environment and internal process conditions.

Why Need

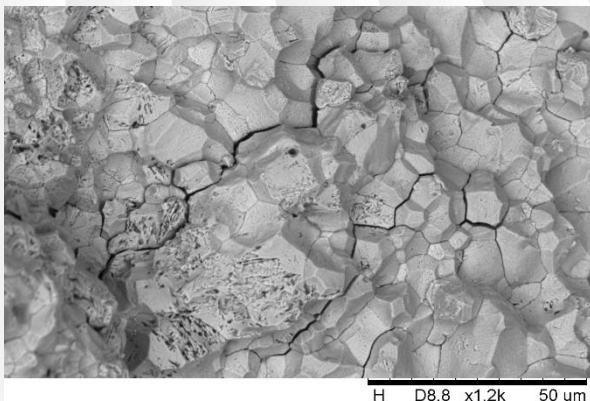
Deterioration weakens the metal which affects the ability to perform its intended functions like pressure holding and strength requirements. Metallurgical Analyses is necessary for early diagnostic of deterioration even at microscopic level present in the metal.

In-Situ Replica Metallography

An effective metallurgical tool for condition / life assessment of metallic components in process plants. **EARLY WARNING!**

What Benefits

- Spot outs Creep, Fatigue, Corrosion and other kinds of Deterioration
- Assessment of High Temp. Components
- Assessment of Fire Effected Equipments
- Failure Investigation
- Monitor the Damage subsequently
- Quality check for Heat Treatment
- Decision making in Go/No Go Case



XRF / PMI Analysis

X-Ray Florescence (XRF) / Positive Material Identification (PMI) used to find

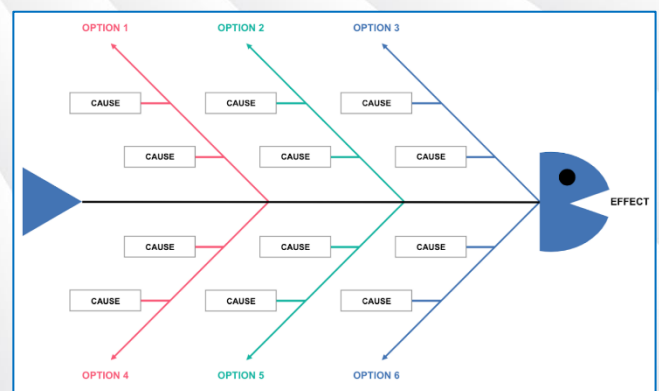
- Material Grade & Elemental Composition



Root Cause Analysis

Histogram of any in-service plant is a Lesson Learned for a safe current and future operation. We serve in evaluating Root Cause Analysis (RCA) with metallurgist & inspection personnel.

- Familiarization with the Plant Process
- Site survey for Data / Sample Collection
- Perform recommended Analyses / Tests
- Summaries the Investigation Report



Related Testing

- Hardness Testing
- Tensile and Bend Testing
- Impact Testing
- Corrosion Testing etc.



CALIBRATION & SURVEY

Why Necessary

Accuracy of any process or operation is equally important from technical and commercial aspects which is highly dependent upon accurate measurement of process parameters included. Accurate measurements are only possible, if devices used are giving valid output data as per actual conditions encountered by them. Calibration and verification are the pathways to ensure accurate functioning of devices.

Instrumentation / Electrical

- Pressure Gauge / Transmitter
- Temperature Gauge / Transmitter
- Flow Indicator / Transmitter
- Differential Gauge / Transmitter
- Level Gauge / Transmitter
- Pressure / Temperature / Flow Controller
- Pressure / Temperature Control Valve
- Infrared / Mercury / Bimetal Thermometer
- Earth Resistance Meter & Multimeter
- Process Calibrator
- Manometer and Density Meter



How Can We Help

Nazaha Tafuq supports in range of calibration and verification services and solutions to electrical, instrumentation, process, mechanical and civil industry.

Torque and Mass

- Analytic and Top Loading Balance
- Electronic Weighing Scale
- Weight Bridges
- Tensile Tester / Analyzer
- Torque Tester
- Force Gauge & Push Pull Gauge
- Dimensional Measurements Tools
- Load Cell
- Dial Indicator & Micrometer

Tank Calibration

Nazaha Tafuq's offers dimensional survey solutions to ensure the structural integrity

- Tank Foundation Settlement
- Tank Bottom Settlement
- Shell Distortion Measurements
- Plumbness / Roundness
- Peaking / Banding

In addition, accurate volume measurements of tank are key for operational and even financial stand point. Our capabilities in tank calibration covers range of tanks installed at facilities.

- Fixed / Floating Roof Storage Tank
- Horizontal and Vertical Tank
- Atmospheric Tank
- Onshore / Offshore Tank
- Ship Mounted Tank





LIFTING EQUIPMENT INSPECTION

Nazaha Tafuq delivers a full portfolio of services for the testing and inspection of all lifting equipment and accessories, ensuring operational safety & regulatory compliance. Training and certification of personnel in accordance with both local and international standards. Internal lifting procedures are assessed by our experts, and supervision is offered for complex heavy and technical lifts worldwide. Our teams offer unrivalled service with a focus on the health, safety and efficiency of your assets in line with ISO 17020, ISO 17024, LEEA standards, ASME & individual country regulations. We provide the following services to our customers

- Periodic Statutory Inspections
- Annual Certification & Training
- Lifting Supervision & Procedures
- Certification of Personnel/Operator
- Earth Moving Machinery Inspections
- Installation & Pre-Purchase surveys of lifting equipment.
- Rigging and Slings
- Wire Rope & Load Testing
- Offshore & Onshore Lifting
- Amusement Park Ride / Device Safety Inspection
- Manometer and Density Meter

Lifting Equipment Inspection

Lifting equipment inspection services is offered to ensure operational safety and regulatory compliance. Lifting Equipment Inspection Including but not limited to

- Crane & Fork Lifter
- Cargo Lifts Elevators
- Suspended cradles
- Scaffolding & Man lift
- Scissor Lift & Aerial lift

Our highly qualified inspectors perform thorough visual examinations, dimensional checks, non-destructive testing (NDT), and proof load capacity, and serviceability of all accessories used in lifting operations.

Lifting Accessories Inspection

We deliver end-to-end inspection and certification services for all types of lifting accessories. Our inspection portfolio includes, but is not limited to,

- Wire Rope Slings
- Chains & Shackles
- Hooks & Clamps
- Lifters & Chain Blocks
- Lever Hoists & Snatch Blocks
- Pulleys, Sheaves & Eyebolts
- Webbing & Round Slings
- Safety Harnesses & Fall Arresters
- Towing Gears & Mooring Gears
- Lifting Pad Eyes & Anchor Bolts.

Earth Moving Machinery

We offer qualified and expert support in Construction Equipment/Machinery & Heavy Equipment Inspection services including excavators, backhoes, skid steer loaders, skip loaders, drill rigs, dump trucks, paving vehicles and dozers etc.

Frequency & Reporting

Lifting equipment must undergo:

- Initial Inspection before being put into service
- Periodic Inspections (monthly, quarterly, or annually depending on usage)
- Thorough Annual Examination as per standard protocols





CERTIFICATION & TRAINING SERVICES

Our Certification & Training services are designed to enhance workforce competence, ensure compliance with international standards, and promote a culture of safety and continuous improvement. We provide a wide portfolio of **hard skills technical certifications and soft skills development programs** tailored to the needs of industries including oil & gas, energy, construction, manufacturing, and logistics.

Training programs are delivered by certified instructors with hands-on industry experience, blending theory with practical application to ensure maximum impact. Courses are aligned with international standards such as **ASNT, API, OSHA, ISO, and local regulatory requirements**, giving participants globally recognized qualifications.

By equipping professionals with both technical expertise and essential behavioral skills, we help organizations improve operational efficiency, reduce risks, and build a competent, safety-conscious workforce.

Specialized Industrial & Technical Trainings

- Welding (WPS, PQR, WPQ)
- Pressure Testing & Leak Detection
- Material Testing & Metallurgy

API (American Petroleum Institute) Preparatory Courses

- API 510 – Pressure Vessel Inspector
- API 570 – Piping Inspector
- API 653 – Aboveground Storage Tank Inspector
- API 580 – Risk-Based Inspection
- API 571 – Corrosion & Materials
- API 577 – Welding Inspection & Metallurgy

Asset Integrity & Plant Reliability Training

- Risk-Based Inspection (RBI)
- Fitness-for-Service (FFS)
- Corrosion Monitoring & Control

Non-Destructive Testing (NDT) Certifications

- ASNT NDT Level I & II (UT, RT, MT, PT, VT)
- Welding Inspection & Materials Testing
- Visual Testing & Surface Examination

Workplace Safety & Operational Trainings

- Defensive Driving Training
- Forklift, Crane Operator & Rigger Training
- Work at Height Safety
- Confined Space Entry & Rescue
- Scaffolding Safety (Erection & Inspection)
- Lockout-Tagout (LOTO) Procedures
- First Aid & Emergency Response
- Electrical Safety & Arc Flash Training

Behavioral & Soft Skills Development

- Behavioral Safety & Safety Culture
- Leadership in Safety Programs
- Communication & Teamwork Skills
- Incident Investigation/ Root Cause Analysis
- Safety Orientation & Awareness Induction
- Sales & Vendor Management
- Adaptability and Critical thinking

Health, Safety & Environment (HSE) Trainings

- Process & Plant Safety Management
- HAZOP / HAZID Workshops





ELECTRICAL TESTING

Through a wide range of different electrical testing & inspection solutions, Nazaha Tafuq can provide top-rate optimization management for any electrical installation during its useful life, including consultancy on inspection, maintenance plans, and root-cause failure analysis. We provide the following electrical equipment testing services to our customers:

- Asset Management and Maintenance Planning
- High Voltage Field Maintenance
- Transmission Lines and High Voltage Cable Condition
- Power Generation Systems
- Substation and High Voltage Safety Equipment
- Assessments, including tan delta and partial discharge identification and location
- Transformer Insulating Oil Filtration, and Reclamation.
- Control Panels, Switchgear, Power Tools & Transformers.
- Thermographic Survey Inspections and Partial Discharge.
- Lamp, Luminaries and AC/DC Control Gear Products
- Protective Relay Testing
- Equipment Failure Investigations

Electrical Equipment Testing and Diagnostic Services

We provide a comprehensive range of testing, inspection, and diagnostic services for all types of electrical assets to ensure reliability, safety, and compliance with international standards. For transformers, we perform overall and bushing insulation assessment, turns ratio testing, excitation and winding resistance measurements, FRA, leakage reactance, FDS, and dynamic resistance analysis. Motors and generators are evaluated through resistance measurements, polarization index, absorption/reabsorption current, power factor and capacity testing, and both online and offline partial discharge testing, including EL CID.

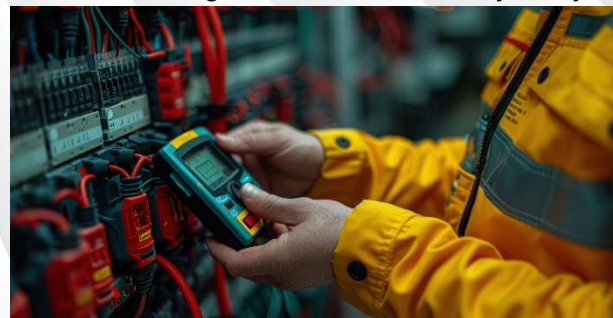
Electrical Equipment Testing & Diagnostic Services

Circuit breakers undergo detailed assessments of contact resistance (passive/dynamic), switching times, synchronism, travel curves, coil consumption, power reset times, SF₆ pressure, and vacuum insulation.

Gas-insulated switchgear (GIS) is checked for partial discharges, while cables are tested for insulation faults, surge withstand voltage, power factor, capacitance, screen resistance, continuity, and underground layout tracing.

We also conduct thermographic inspections of electrical installations up to 400 kV, and insulating oil analysis including physicochemical testing, dissolved gas analysis (DGA), PCB detection, and corrosive sulfur evaluation.

Communication systems are evaluated through hardware/software testing, optical power attenuation, I/O verification, channel testing, and data traffic validation. Battery systems are inspected for capacity, rectifier-charger functionality, charging thresholds, current limitations, and mono-block integrity. We also perform rotating equipment vibration analysis for early fault detection, frequency domain diagnostics, and failure severity assessment. For solar PV modules and inverters, we provide I-V curve testing and inverter efficiency analysis.



Nazaha Tafuq (Private) Limited

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NAZAHA
Tafuq

ENABLING A SAFER, COMPLIANT FUTURE