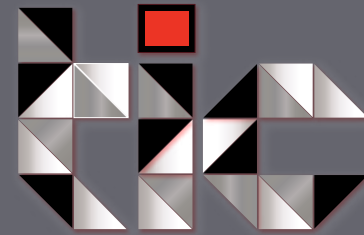


# WELCOME TO **TIC QUALITY CONTROL**



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Testing | Inspection | Certification





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# ABOUT COMPANY

Strategically headquartered in Dubai, TIC Quality Control is a quality control service company that takes pride in consulting services and quality solutions in highly competitive environments by strategically adapting and making improvements in performance in line with current market trends and deliver best practices for projects of all sizes.

Our inspection services are led by a group of experienced experts within the field, who will help you eliminate the risk of product defects, assure material safety as well as meeting industry and regulatory requirements. We are dedicated to helping you meet the safety, quality, and ethical standards you demand throughout your supply chain.



# OUR TEAM

Our diverse team are skillfully trained individuals, we strive to consistently deliver innovative quality control services and customized solutions to all our clients and industries that we operate in. We also believe in the importance of on-going training and education throughout our team’s employment here at TIC Quality Control.

## We choose the best

- University Degree with Engineering background
- Minimum of 5 years’ experience
- Full valid driving license
- Bilingual speakers
- Written and physical technical assessment on/offsite
- Assessment and technical knowledge and skills





# Global PRESENCE



## MISSION

To be the preferred solution provider in the MENA region, leading the local and regional market in Inspections and Calibration services by introducing innovative services to our clients.

## VISION

To succeed we must evolve, stay committed to our sold work ethics, have a passion to keep current with the newest of innovation of our industry, and continually strive to find new and better ways of working. Our goal is to provide the right services and solutions, in the right setting, at the right time.







## VALUES

To create a sustainable growth, we believe in the foundational commitment of social responsibility being at the heart of our operation which includes accountability, and integrity





# ACTIVITIES AND SERVICES

-  **Non-Destructive Testing**  
by all the standard methods as per client requirements  
(UT, MT, PT, RT, PAUT, TOFD, ECT, MFL, UTG, IRT Etc)
-  **Welding Inspections**  
by certified AWS & Cswip inspectors
-  **Corrosion Analysis & Cathodic Protection**
-  **FFS (Fitness for service inspections) & Asset integrity Assessment**  
for Tanks, Vessels, Pipelines by certified API inspectors
-  **Calibration services**  
for all Oil and Gas monitoring equipment's
-  **Pre-Shipment Vehicle Inspection**
-  **Food Inspection**
-  **Regulatory Watch Services**



# ACTIVITIES AND SERVICES

-  **Oil & Gas Industry Upstream & Downstream Chemical Refineries - Power Plants etc**  
We provide services to the full supply chain for Oil and Gas industries
  - Pressure Vessel
  - Reactors / Storage Tanks
  - Heat Exchangers / Pressure Piping / Power Piping Equipment's
  - Cross Country Pipelines
  - Offshore Jackets - Oil Rigs - Windmills
-  **Marine Industry**  
Our testing services for marine include the following
  - Ship and yacht floor inspection
  - Corrosion measurement and mapping
  - Weld inspection
  - Structural integrity assessment of ship hulls
-  **Civil Industry**  
Our testing and inspection include the following services
  - Steel Structures and subjects
  - Concrete
  - Electrical Panels
-  **Aerospace & Railway Industry**  
We provide services inception and testing in
  - Structures and Support and Turbine
  - Railway tracks and layout





# INDUSTRIES AND SERVICES

## Oil & Gas INDUSTRY

*Upstream & Downstream  
Chemical Refineries  
Power Plants etc*

Non-Destructive Testing (NDT) and Quality Control Services play a critical role in the lifecycle of oil and gas industries. Maintaining the integrity of the equipment, as well as the safety of petroleum refining and extraction operations ensures potentially hazardous fluids and chemicals are safely contained within pipes and pressure vessels



### Pressure Vessel

Thorough vessel testing is one of the most important aspects of the entire fabrication process. Prone to hazardous or toxic fluids and gases pressure vessels can leak or fail, becoming a major health and safety concern

### Reactors / Storage Tanks

Regular inspections are vital to highlight any deterioration or flaws in the structure which could cause leakages, corrosion, or excessive wear

### Heat Exchangers / Pressure Piping / Power Piping Equipment's

Key assets in the Oil and Gas, Power Generation and Chemical industry, such equipment require regular Non-Destructive Testing (NDT) to detect flaws early, respond proactively and prevent critical failures or unplanned shutdowns

## Cross Country Pipelines

Ongoing and planned pipeline expansions as well as existing cross-country pipelines are some of the most crucial transportation infrastructures globally. Whilst it is essential to keep society operating, it is also vital to inspect the very same pipelines for prevention of hazardous environment and communities.

Non-destructive testing is the preferred method of pipeline testing in the oil and gas sector, due to the threat and environmental hazard oil and gas poses to the integrity of pipeline welds regular inspections of the pipelines are vital during and after the construction process.

### NDT Pipeline Inspections:

- Quick
- Easy and accurate, during initial construction and during welding
- NDT is portable allowing inspections conducted remotely

## Offshore Jackets – Oil Rigs – Windmills

Offshore jackets are large tubular steel three-dimensional frames which are anchored to the seabed using steel piles which takes the loading of the sea environment and the topsides which is fixed on offshore platform.

### There are various risks inherent in these structures:

- **Nodes** – prone to corrosion, design and fabrication are essential with regular inspections
- **Structure** – various subject forms, fatigue loading, risk of ongoing corrosion, including vortex-induced vibration (VIV)
- **Piles** - must resist tension as structure have tendency to overturning





## Marine INDUSTRY

Heavy regulated industry there is a need to maintain regular quality inspections for environmental compliance and growth, safety precautions, equipment standards as well as cost-efficient solutions.

- Ship and yacht floor inspection with Pulsed Eddy Currents (PEC)
- Corrosion measurement and mapping on ship hulls with Ultrasonic Testing (UT)
- Weld inspection for surface cracking with Alternating Current Field Measurement (ACFM)
- Structural integrity assessment of ship hulls with Remote Visual Inspection (RVI)



## Civil INDUSTRY

Testing and Inspection services play vital role in ensuring maintenance of civil structures, such as masonry units, concrete, fiber-cement and steel subject to various tests at different times, e.g., during construction, but mainly during the service life.

- Steel Structures of Building, Fire water Pipelines, Steel beams Etc.
- Electrical Panels, Concrete walls for Moisture content etc..

## Aerospace & Railway INDUSTRY

Testing and Inspection services play vital role in ensuring maintenance of civil structures, such as masonry units, concrete, fiber cement and steel subject to various tests at different times, e.g., during construction, but mainly during the service life.

- Structures, supports, turbine blades, valves, dampers
- Valve rings, nozzles, gear boxes
- Frames, compressor case details
- Flanges, railway tracks etc





## What is Non-Destructive Testing – NDT

Testing that is used to examine & evaluate the properties of materials, structures, and equipment without causing damage or increasing the risk of the integrity of the items being tested.

## Why use Non-Destructive Testing – NDT

NDT plays a crucial role in everyday life for companies using pipelines, refineries, civil structures, oil and gas platforms, power stations, marine and many more.

The goal of NDT is to ensure that critical infrastructure is properly maintained in order to avoid catastrophic accidents and failures which can also have devastating impact and disruptions, where some companies may never recover. NDT also allows you to meet and comply with industry and government regulations and requirements.

## Which industries use Non-Destructive Testing – NDT

There is a growing need for companies who are looking to make sure their products, materials and equipment achieve their design requirements and maximize expected life and improve reliability. There are also needs for stricter and increased regulations in place for regions and industries to assess everyday safety preventing accidents and manage assets and resources.



# NON DESTRUCTIVE METHODS

## Advance NDT Methods – (ANDT)

Advanced inspection technologies provide innovative solutions to Integrity Projects and Non-Destructive Testing inspections. TIC QC Is capable of providing all the below NDT methods with highly experienced inspector & most advanced equipment's.

- Phased Array technique - ultrasonic testing (PAUT)
- Time of Flight Diffraction technique - ultrasonic testing (TOFD)
- TFM / FMC - ultrasonic testing
- Eddy Current Testing - Surface
- Magnetic Flux Leakage testing of bottom plates for corrosion checking.

## Conditional Based Testings

- Positive Material Inspection - XRF-PMI
- Portable Hardness Testing
- Ferrite Testing

## NDT Training for Level 1 & Level 2

TIC Quality Control will provide trainings for all NDT Level 1 and Level 2 methods as per employer written practice.

## Conventional NDT Methods (CNDT)

- Ultrasonic Testing
- Ultrasonic Thickness Measurement
- Magnetic Particle Testing (Yoke technique)
- Liquid Penetrant Testing
- Visual Inspection (Direct & Remote)
- Radiographic Testing
- Infrared Thermography

## ASNT & PCN NDT Level 3 Services

AQualified and experienced NDT Level 3's certified from American Society of NDT (ASNT) and British Institute of NDT (BINDT)-PCN providing Level 3 Services:

- NDT Procedure Preparation
- Review and Approval of Procedures
- Handling Demonstrations
- Technical Trouble Shooting
- Audit Assistance



# CALIBRATION SERVICES

Calibration of Construction and Oil and Gas industries are highly important. To crease risk of inaccurate measurements, TIC Quality Control provide tests and calibration equipment that meet international stan-dards to companies in both industries. Our calibration services include but not limited to:

- Temperature
- Pressure
- Flowmeters
- Weight
- Volume
- Balance

TIC Quality Control instrumentation provides industrial calibration services in our controlled & static-free laboratory or at our customer's site Our skilled technicians and inspectors will calibrate a company's equipment to ensure it's quality and accuracy of the equipment. Our employees are also trained in making sure that equipment and instruments are in accordance with their manufacture's specifications.

## Which Calibration Parameters of Laboratories

- Electrical Calibration
- Mechanical Calibration
- Pressure Calibration
- Gas Analysis
- Humidity Indicators
- On-Site Calibration
- Temperature Measuring Devices
- Flowmeters
- Weight
- Volume
- Balance

## Applicable Industries for Calibration Services

- Oil & Gas, Chemical Refineries
- Power Plants
- Offshore Oil Rigs / Ships
- Electricals
- Manufacturing
- Civil
- Automobile
- Aerospace
- Weight

# PRE-SHIPMENT INSPECTIONS

## Vehicle (COC)

### PRE-EXPORT VEHICLE INSPECTION & CONFIRMATION OF CONFORMITY (COC) CERTIFICATES

Pre-export vehicle inspections are crucial for exporting cars to international countries and Confirmation of Conformity (COC) Certificates are required for vehicles to enter certain countries.

TIC is an accredited quality control company that can provide quick and efficient vehicle inspections and COC certificates that meet specific vehicle requirements that are assigned by a country's government. We provide inspections and COC Certificates for heavy machinery, and agriculture ma-chinery that is imported into a country with assurance that all machinery and vehicle inspections ensure compliance and meet safety requirements.

## What is included in the inspection

- TIC Quality Control will conduct a pre-export inspection based on the legal requirements of the CBCA programme for Used Vehicles, below listed some of the requirements:
- Document verification to check vehicle history
  - Inspected for water flood, fire accident
  - Visual inspection of vehicle Chassis
  - Two fully functional and working front airbags
  - Vehicles (ABS) system inspection
  - Seat stern vehicles or changed stern inspection
  - Body exterior and interior components of vehicles inspection





# REGULATORY WATCH SERVICES

*The implementation of the Regulatory Watch Service can be applied to all lines of products and categories including retail channel, exporter and manufacturer. TIC Quality Control Regulatory Watch service helps provide context to the current regulatory environment as well as providing up to date information as changes are made.*

- TIC creates a regulatory library based on its analysis
- Research on regulatory environment (authorities, standardization boards)
- TIC analysis and review (regulations and standards)
- Validation process and upload of documents to an online platform



# AGRICULTURE SERVICES

*Agriculture and green growth play a major role in the pursuit of economic growth and development, the aim is to maximise the chances of exploiting cleaner sources of growth, leading to more environmentally sustainable growth model.*

- Integrity
- Safety
- Sustainability

Play a crucial role within the agriculture industry, meaning close monitoring of each principal aspect is vital to business compliance and efficiency.

## Fertiliser Inspection & Testing Services

Fertilisation of farm soil plays significant role in the quality of a crop, it provides analysis information on nutrients such as what are available and what is needed to be introduced, which is critical information for commercial producers. Such analysis services provide valuable insight that can help to maximize the yield and quality of crops in farm soil.





## Agricultural soil testing allows producers to:

- Increase Productivity
- Enhancing Efficiency
- Maximise Profits of Crop Season
- Maintaining Good Environmental Practice

We offer seamless access to comprehensive customised agricultural services which cover every stage of production.

- Monitoring
  - Sampling
- Weighing
  - Testing



## Our inspection and testing services for agricultural commodities

- Moisture, size, and weight determination
- Tally supervision
- Monitoring of foreign materials and others
- Sampling and chemical analysis in laboratory
- Sample preparation
- Checking of packaging
- Damage survey
- Cargo visual inspection and storage condition survey
- Loading and discharge supervision, including loading process, temperature
- Daily and final activity reports

## Vegetable Oils and Fats Inspection & Testing Services

Food items must maintain their integrity to meet customer expectations for satisfaction and safety. Monitoring, maintaining, conducting tests, and other analysis, regarding fats and oils ensures the safety and quality of all these products whilst maintaining edible oil quality are produced for consumption.

We provide support in the reliable quality and quantity assurance as well as safety and traceability of vegetable and animal fats and oils.

### Pre-shipment Inspections / Loading and Discharge Supervision

- Loading and discharge supervision
- Stock monitoring
- Verification of cleanness of vessels and shore tanks
- Empty/full flexitanks weighing supervision
- Sealing of ships tank
- Sampling and analysis
- Photographic reporting

### Testing & Laboratory Services

- Moisture
- Acidity (FFA)
- Insoluble Impurities
- Flash Point
- Saponification Value
- Lovibond Colour
- Sediments
- Slip Melting Point
- Ash Wax Content
- A complete offer of physical and chemical analyses

### Inspection & Tested Vegoils (RBD/Crude)

- Sunflower seed oil
  - Palm stearin
  - Palm olein
  - Olive oil
  - Palm kernel
  - Soybean oil
- Coconut oil
  - Rapeseed oil
  - Canola oil
  - Groundnut (peanut) oil
  - Flaxseed (linseed) oil
  - Mustard oil





## Grains and Pulses Inspection & Testing Services

Increase in production, processing, and trading practices have raised the demand for quality assurance and standardisation in grains and pulse products due to the large quantities consumed globally. Food companies are increasingly paying attention to their corporate responsibilities and practices for the export of grains and pulses due to social and environmental impact of businesses before reaching consumers.

There is a growing need for food supply chain transparency and sustainable practices within business policies.

- Improvement Quality of Grains in Market
- Good Health Practice
- Better Handling / Storage Practice

### Pre-shipment Inspections / Loading and Discharge Supervision

- Loading and discharge supervision
- Stock monitoring
- Verification of cleanness of vessels and shore tanks
- Empty/full flexitanks weighing supervision
- Sealing of ships tank
- Sampling and analysis
- Photographic reporting

### Laboratory Testing

- Complete physical testing
- Chemical contamination and microbiological analysis
- Standard specific capabilities
- Grading
- GMO testing
- Pesticide residue and contamination analysis

### Weighing and Sampling

- Verification of scales
- Gross weight, tare weight, and net weight determination

### Inspected & Tested Products

- |          |             |
|----------|-------------|
| ● Wheat  | ● Sorghum   |
| ● Corn   | ● Dry beans |
| ● Barley | ● Lentils   |
| ● Rice   | ● Chickpeas |



## Fruit and Vegetables Inspection & Testing Services

Fruit and vegetables in supermarkets today must be of high quality to ensure adequate nutritional benefit and products remain fresh and edible. From the time of harvest to when they appear on the shelf, fruit and vegetable go through many different environments, affected by multiple factors and conditions in different facilities along with handling mode which influence the quality:

- |                                   |   |                                  |
|-----------------------------------|---|----------------------------------|
| ● Weather conditions              | <b>These services include:</b>                |                                  |
| ● Pests, Diseases and Genetics    | ● Pre-production Inspection and Monitoring    | ● Sampling Services              |
| ● Handling and Storage Conditions | ● Loading Supervision/Discharging Supervision | ● Pre-shipment Inspection        |
| ● Internal Changes, and Genetics  | ● Food Contact and Package Testing            | ● Damage Survey / Tally Services |

### Fresh Produce Factory Inspection Audits

Choosing the right factory who use the correct and efficient manufacturing and storage processes are essential as food products perish quickly. It is vital for industries to ensure standards in food hygiene and safety, storage capabilities and efficient supply chain.

### Our Factory inspections include:

Factory Technical Capability Audits  
Food Hygiene Audits  
Storage Audits

### We provide you with a full visual and physical inspection including:

- Size / Shape / Colour
- Quality and Condition
- Physical Damage and Foreign Object Contamination
- Certification
- Loss and Weight Control
- Packaging Condition
- Temperature Determination
- Brix/ Acidity





# FOOD INSPECTION

## *Laboratory Testing Services*

We provide systematic methods to help businesses to have better control and track their food supply chain. With a strong focus on response turnaround times, efficiency, urgencies, and specific food safety issues, we are committed to the pursuit of inspecting and handing out fair reports of any food samples coming to our laboratories through scientific procedures, and standardized compliance regulations.

- Physical Testing
- Nutritional Testing
- Microbiological Testing
- Agricultural Testing
- Testing for inorganic impurities (soil, sands, residue of materials,)
- Food Product Testing
  - Quality (Texture, Taste, Colour, Smell)
  - Weight
  - Labelling
  - Packaging
  - Expiration date





# ACCREDITATIONS & CERTIFICATES

