

High Quality Solution Through Technology



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Testing & Inspection Technology (TIT) company was created with the purpose of finding and implementing innovation technologies in different industries. It means that we concentrate on finding and rolling out of technologies that are truly innovative. We aim to search for high-technology companies that have modern products. We are constantly looking for innovative solutions for welding, robotics, quality control and testing industries.

We are proud that we are constantly thinking «outside the box» and finding effective solutions and implement those solutions quickly and effectively.

Our company was created to provide our clients with the best innovations and newest technologies. Our specialists have over 25 years of experience in non-destructive testing, industrial diagnostics and welding technologies. Our team is highly educated specialists who have been trained in different places of the globe and have vast experience in these fields. We are constantly involved in self-developing, which our rule.

We offer best innovative solutions. Currently, TIT is offering a wide variety of products for different technologies.

### **Our Vision**

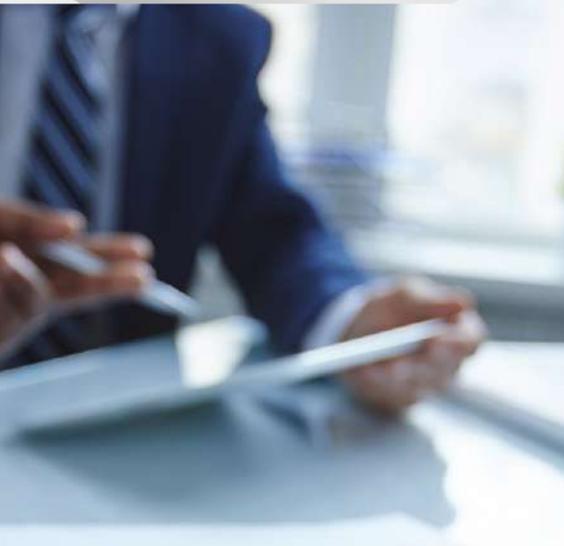
Our vision is that innovative solutions in NDT, material testing, welding technologies and related quality services providers with high industrial standards shall be available to all. Integrations training, certification, consulting, trading and other customized services contribute to the customer's business development.

### **Our Mission**

Our mission is to provide world class services in NDT, material testing, welding technologies, inspection, training, consulting and other quality services & solutions with high professional integrity & reliability using technology driven resources.

### **Our Quality Policy**

We, at TIT, shall ensure customer delight through delivering world class quality services by maintaining cost competitiveness through continual improvement of our Quality Management System, professional services of Non-Destructive Testing, Material Testing, Training & Certification, Consulting, Trading and other Quality Services thereby minimizing the impact on the environment, reducing occupational health hazard and safety risk.



PROVIDING CONSULTING  
ON A WIDE RANGE  
OF ISSUES IN SECTORS

## Activities



Non-Destructive Testing (NDT)  
Material Testing  
Welding Technologies



Education

## OUR ADVANTAGES



Consultations



Equipment selection



Individual approach



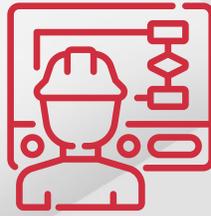
NDT Specialist Training



Repair and Maintenance



# TEAM & CAPACITIES



More than **25** years of experience in NDT, Welding Technologies and Material Testing



Over **15** years of professional experience



**70+** Highly-qualified specialists



**100%** Local content in every country of operation



Regional office in Kazakhstan

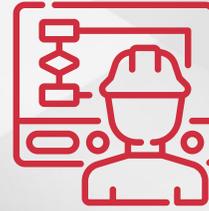


# ADVANTAGES OF WORKING WITH US



## The Best Team

We have ample experience in Non-Destructive Testing (NDT) and Technical Diagnostics, Material Testing, Welding Technologies



## Keeping It Simple

Our team of straightforward and logically thinking people utilizes a common-sense approach to business avoiding unnecessary complexities to get the job done.



## Achieving Lowest Cost

We never lose sight of good value, we are able to deliver the best solution for you through working with multiple suppliers.



## A Culture of Innovation

We strive to achieve new and inventive solutions to help you develop your brand and achieve your growth ambitions.



## Global Reach

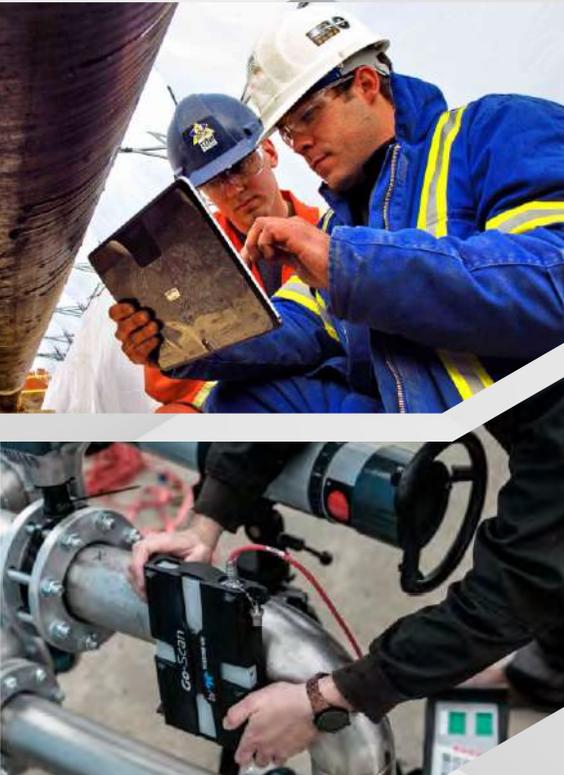
We can deliver global solutions for our clients.

## NON-DESTRUCTIVE TESTING (NDT)

Non-destructive testing is exactly as the name implies – testing that is performed without destroying or impacting the integrity of the items tested. A diverse range of industries use NDT to detect defects and irregularities and assess safety in equipment and assets, and the growing need to utilize NDT is a result of companies looking to extend the life of equipment, plant facilities and other assets in addition to adhering to increased regulations.

NDT helps to protect the investment made in plant infrastructure by providing the valuable data needed to detect, monitor and improve processes and assets. NDT also helps manufacturers in assessing components and products for quality and possible failure. Potential damage to a company's reputation and brand can be avoided by utilizing NDT to ensure the products' safety and reliable operation.

Today modern non-destructive tests are used in manufacturing, fabrication and in-service inspections to ensure product integrity and reliability, control manufacturing processes, lower production costs and maintain a uniform quality level. During construction, NDT is used to ensure the quality of materials and joining processes during the fabrication and erection phases, and in-service NDT inspections are used to ensure that the products in use continue to have the integrity necessary to ensure their usefulness and the safety of the public.



### Current NDT methods are

- Acoustic Emission Testing (AET)
- Electromagnetic Testing (ET)
- Guided Wave Testing (GW)
- Ground Penetrating Radar (GPR)
- Laser Testing Methods (LM)
- Leak Testing (LT)
- Magnetic Flux Leakage (MFL)
- Microwave Testing
- Liquid Penetrant Testing (PT)
- Magnetic Particle Testing (MT)
- Neutron Radiographic Testing (NR)
- Radiographic Testing (RT)
- Thermal/Infrared Testing (IRT)
- Ultrasonic Testing (UT)
- Vibration Analysis (VA)
- Visual Testing (VT)
- And other advanced technologies NDT (ADV NDT)

**The six most frequently used test methods are MT, PT, RT, UT, ET and VT.**

At TIT our customized solutions for each customer help us to work in a wide variety of industries including oil and gas, power generation, petrochemical, aerospace, defenses, marine, rail, submarine, foundries and general engineering.

We offer both conventional and advanced NDT methods to provide a complete examination of components, equipment and assets. Our on-going commitment to providing the best in NDT means that we invest in the latest innovative technology and training for our expert staff. This technology, combined with our expertise and consistently reliable support, give you the assurance you need that quality and safety risks are minimized and operations are performing at optimal levels.

Material testing is a necessary step to ensure that your infrastructure and vital equipment will provide continued production, undergo minimal degradation and are designed with optimal performance in mind. Material testing can also supply a wealth of information about the materials you are developing or incorporating into products to ensure they perform within expected specifications

Ensuring that crucial materials are fit for purpose presents a challenge to developers, operators and manufacturers across many industries globally. You need assurance that your equipment and infrastructure will perform to the end of its design life with minimal maintenance, failure mitigation and with mechanical strength prioritized and planned for. To optimize your R&D programs you will need a comprehensive understanding of your materials or products under development.

TIT company supply testing equipment in accordance with the quality, performance, regulatory compliance, safety, benchmarking, evaluation, validation, analysis and other requirements for products, components, raw materials, sites, and facilities.

With over 15 years experience, our experts and global resources are quipped to meet your testing, timeline and product needs. As regulations change and technology is created or innovated, our knowledge and industry expertise ensure your products and business are prepared to meet evolving demands.

We help you bring our product to your market quickly, responsibly, and economically to keep your business continually moving ahead.



### Application areas

- Automotive Testing
- Chemical Testing
- Energy Efficiency Testing
- Environmental Testing
- Food Testing
- Household Equipment Testing
- Mineral Testing
- Packaging Testing
- Petroleum Testing
- Pharmaceutical Testing
- Polymers & Plastics Testing
- Textile & Apparel Testing

### Our main tests of material

- Chemical analysis of materials and metals
- Mechanical testing of materials
- Investigation of fatigue properties of materials
- Hardness measurement
- Tests of concrete, asphalt, cement
- Metallographic
- Sample preparation
- Climatic testing
- Scanning electronic microscopes

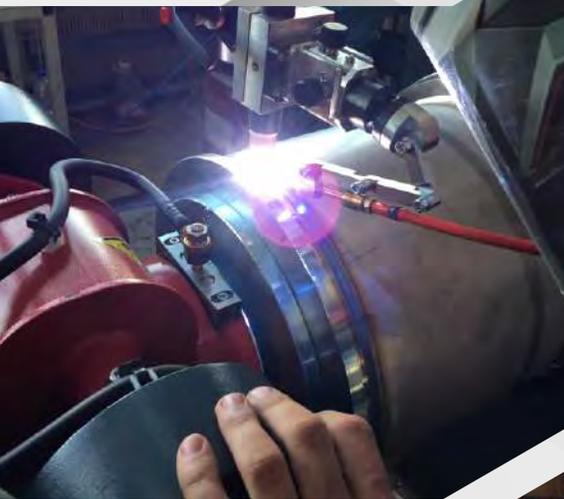
With our unique blend of local and global knowledge and internationally renowned experts leading our teams, we are the ideal provider for your materials testing, giving you the insight you need into material properties, strength, durability and performance.

In addition, delivering solutions on a project-by-project basis we aspire to become your trusted materials testing partner enabling you to consolidate your vital services and streamline your processes.

# ACTIVITIES

## WELDING TECHNOLOGIES

TIT is a supplier of full industrial solutions based on welding and metal cutting technologies, and we offer our solutions to clients located anywhere in the world.



Our solutions include development of welding stations and complete welding assembly lines, development of production using advanced thermal cutting technologies (plasma and laser cutting), development of welding technologies for different areas of manufacturing (machine-building, energy, including nuclear, pipelines, chemical manufacturing, aviation, railroads, and ship-building), non-destructive testing, inspection of welds and welding equipment, and quality control. Our solutions always include necessary components of automation and robotization in order to achieve the highest quality of work with minimum personnel.

Our solutions lead to internationally recognized certifications that provide real advantages for manufacturing due to new competencies and expanded abilities.

TIT is able to generate and offer solutions meeting our client's personal, corporate or industry requirements. Standard solutions are developed at our facilities, while customized solutions can be developed at our client's place of business.

Advanced modeling of all our solutions allows our clients to see and estimate results beforehand.

Our solutions for welding are developed in accordance with international standards like AWS, ISO and ASME.

TIT has access to newest technologies and we offer consultations and modeling to our clients. We are highly respected for our experience, professionalism, impartiality and confidentiality and we partner with the most respected companies in business.

We offer our clients engineering services for development of individualized and focused welding solutions. We closely cooperate with our clients to quickly assess their needs and offer them exact technical solutions adapted to their needs. Our specialists use their extensive knowledge and experience in welding and plasma cutting to find the best solutions for you. We also have extensive experience in development and implementation of complete solutions for end used including welding system, monitoring and control system and full analysis software.

## NON-DESTRUCTIVE TESTING (NDT) SPECIALIST TRAINING

TIT company can provide non-destructive testing training in a wide range of disciplines - in conventional NDT techniques and specialist NDT processes.

All of our NDT training is provided by a team fully qualified in European requirements according to EN ISO 9712 and standards of the CIS countries, all of whom have industry experience. We can supply NDT training to a wide range of industry sectors including oil, gas, power and chemical.

Our training meets European, international and standards CIS countries.



### Our NDT training courses

- Radiographic Testing (RT, CR+DR)
- Ultrasonic Testing (UT, PAUT+TOFD)
- Visual Testing (VT)
- Eddy Current Testing (ET)
- Penetrant Testing (PT)
- Magnetic Particle Testing (MT)
- Thermal/Infrared Testing (IRT)
- Acoustic Emission Testing (AET)
- Leak Testing (LT)
- Advanced NDT (ADV NDT)

More specialist NDT courses are available in phased array (PAUT), time of flight diffraction (TOFD), digital radiography (DR). We also offer bespoke training to meet your company's individual needs.

Our training is based on practical exercises and backed up by classroom teaching.

We share our professional skills with all trainees. Courses are conducted in offices equipped with lecture rooms and laboratories for practical exercises. Alternatively, training can be delivered at your company's premises. We offer training courses in English and Russian.

By partnering with TIT company for your NDT training needs, you can rely on our experienced and qualified staff to train your personnel to industry standards in a variety of conventional NDT techniques, along with more specialist NDT methods.

# SERVICES

## REPAIR AND MAINTENANCE SERVICE

You know that your car is a machine that requires maintenance and care. You have to change the oil, top off fluids, tighten bolts, and keep it clean in order for it to run well and last a long time. Laboratory equipment is no different! In order for your equipment to work, you need to properly care for and maintain it as well. This proper care and maintenance will help you keep your lab equipment up and running as long as possible

Regular maintenance and inspections keep your equipment running and ensure your safety and the safety of the machine. Additionally, you can significantly minimize wear and reduce downtime.



Preventative Maintenance  
and Inspection



Equipment  
servicing



Installation  
and modification



Affordable  
assurance

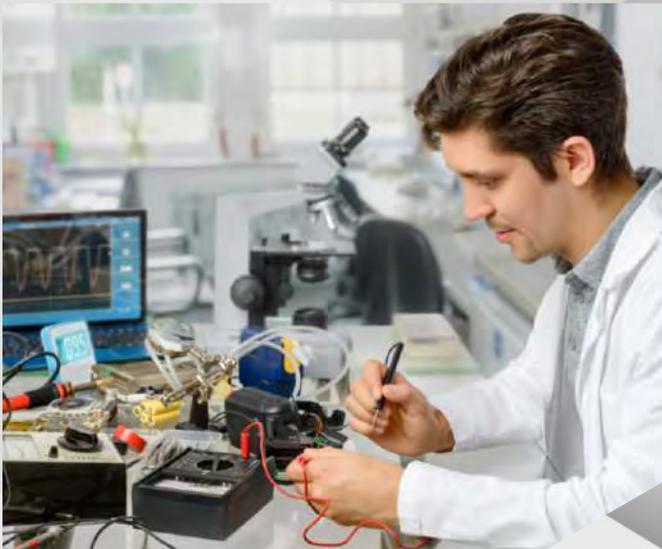
TIT company has now become a truly global leader in equipment services and Product Qualification Testing Services

**The qualification of TIT service engineers allows to carry out maintenance and repair of the widest range of equipment in such area as:**

- Scanning electron microscopy
- Mechanical Testing
- Microscopy
- Micro and macro examination
- Chemical analysis of metals
- Non-destructive equipment care
- Failure investigation
- Expert witness
- Reverse engineering
- On-site metallurgy services
- Welding equipment service

**With TIT Service you Receive:**

- Defined maintenance at specific intervals
- Maintenance intervals based on your equipment use
- Maintenance performed by experienced field service engineers
- Detailed report of equipment condition
- Written confirmation of services performed
- Recommendations for future service
- Warranty support



Learn more today

At TIT company we do not only design, develop and manufacture leading-edge test equipment, but we spend each day helping our customers solve their most difficult testing and lab operation challenges through our service and support capabilities.

With a service partner like TIT, you can maximize the performance of your equipment, lab, and investments to reach your testing goals.

Contact us today to optimize your testing operations with TIT service solutions.

# QUALITY IS WHAT UNITES US



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