

NQI

National Quality Inspections



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 Randburg, Gauteng, 2106

NATIONAL QUALITY INSPECTIONS

We are committed to setting new standards and driving positive change in the industry.

ABOUT OUR COMPANY



A BRIEF STORY ABOUT THE COMPANY

National Quality Inspections (NQI) was established to address the growing need for reliable engineering inspections in Africa.

With our network of experienced professionals, we provide accurate inspections that adhere to all codes and regulations.

Our services include compliance inspections, engineering office services, engineering designs, 3D laser scanning, UAV inspections, asset monitoring, surveying, and Non-Destructive Testing (NDT).

Through our dedication to precision and customer satisfaction, we have earned a reputation for excellence. We are committed to setting new standards and driving positive change in the industry.

BRINGING IDEAS AND INNOVATION
TO LIFE THROUGH TECHNOLOGY



VISION

At National Quality Inspections (NQI), our vision is to drive positive transformation in Africa's engineering inspections industry. With a dedication to precision, innovation, and customer satisfaction, we aim to set new standards of excellence through accurate, code-compliant services delivered by skilled professionals. Our commitment to providing advanced solutions like 3D laser scanning, UAV assessments, and Non-Destructive Testing (NDT) enables us to inspire confidence and ensure the reliability and compliance of critical infrastructures across the continent.

MISSION

- 01** We achieve our vision by combining advanced technologies like 3D laser scanning, UAV inspections, and Non-Destructive Testing (NDT) with a skilled team of professionals.
- 02** By establishing new benchmarks in engineering inspections, we empower our clients to optimize safety and operational efficiency. Our focus on accuracy and customer satisfaction builds long-term trust and value within the industry.
- 03** Our goal is to deliver exceptional engineering inspection solutions that uphold regulatory compliance and drive positive industry change. We aspire to lead Africa in reliable engineering inspections, fostering innovation and excellence.

SERVICES

COMPLIANCE INSPECTIONS

- Engineering Compliance
 - Structural Audits & Compliance
 - Civil Compliance
 - API Piping Compliance
 - API Tank Compliance
 - Electrical Design Compliance
- Plant Audits - Code Compliance
- Issuing Of Compliance Certificates
- Storage Silo Inspections & Compliance
- Pressure Vessel Inspections & Testing

ENGINEERING OFFICE

- Reverse Engineering
- 3D Laser Scanning (Sub MM Accuracy)
- As Built Modelling & Engineering Drawings
- New Engineering Designs
- Multi-Disciplinary Drawing Office
 - Structural
 - Mechanical
 - Piping
 - Civil

ASSET MONITORING & SURVEYING

- UAV Surveying
 - Topographic Surveys
 - Stockpile Volume
 - Construction Surveys
- UAV Inspections
- Ground Based Inspections
- Steel / Concrete Silo Inspections

NON DESTRUCTIVE TESTING

- Manual Ultrasonic Thickness Testing
 - Magnetic Particle Testing
 - Liquid Penetrant Testing
 - C-Scan
 - Magnetic Flux Leakage
 - Leak Testing
 - Electromagnetic Testing
 - Phased Array Ultrasonic Testing
 - Pipe Scanning
 - Radiographic testing
-

COMPLIANCE INSPECTIONS



Structural Audits to evaluate the integrity of critical infrastructure. Utilizing advanced techniques such as 3D scanning, Non-Destructive Testing (NDT), deformation analysis, and thickness testing, our skilled professionals ensure compliance, safety, and reliability in line with industry standards.

API 653 and API 650 audits ensure the safety, reliability, and compliance of storage tanks and their associated systems. These audits evaluate critical factors such as tank shell integrity, floor condition, corrosion levels, and piping system standards. Utilizing advanced techniques like ultrasonic thickness testing, 3D laser scanning, and non-destructive evaluations, these audits verify adherence to API standards for design, fabrication, inspection, and operational efficiency. Together, they provide comprehensive solutions to maintain regulatory compliance and optimal performance.



Silo audits are detailed evaluations of the structural health and operational efficiency of storage silos. These audits involve advanced methods such as 3D laser scanning, deformation analysis, and non-destructive testing (NDT) to assess factors like wall thickness, structural stability, and potential wear. By identifying risks and ensuring compliance with safety standards, silo audits enhance reliability, longevity, and operational performance.

PRESSURE VESSEL INSPECTIONS



Comprehensive inspection and testing services to ensure strict compliance with applicable pressure vessel regulations. All inspections are conducted by highly qualified and certified inspectors with proven expertise in pressure equipment integrity and regulatory standards. Our range of pressure vessel inspection services includes:

- Statutory in-service inspections to confirm ongoing compliance with national Pressure Equipment Regulations.
- Pre-commissioning inspections for newly installed pressure vessels to verify readiness and safety before operation.
- Third-party design verification and fabrication assessments for new pressure vessels to ensure conformity with design codes.
- API 510 inspections, which assess the mechanical integrity of vessels throughout their lifecycle.

Each assessment is underpinned by industry-recognized codes and performed with technical precision to support operational safety and regulatory assurance.

ENGINEERING OFFICE



3D laser scanning provides precise and detailed assessments of structural assets, capturing accurate measurements and high-resolution data for analysis. This advanced technique supports reverse engineering, the creation of as-built 3D models, and the evaluation of factors like deformation, alignment, and structural integrity. It offers reliable insights for compliance, maintenance, and design optimization.

Multi-disciplinary draughting office

specializes in delivering high-quality design and drafting solutions across various engineering disciplines. Using advanced software and state-of-the-art techniques, we produce accurate engineering drawings, detailed 3D models, and comprehensive as-built documentation tailored to meet project specifications. These services support efficient project planning, reverse engineering, and compliance with industry standards. By combining precision, technical expertise, and a client-focused approach, we ensure our draughting solutions enhance productivity, streamline workflows, and contribute to successful project outcomes.



ASSET MONITORING & SURVEYING



UAV surveying services offer precise topographic mapping, stockpile volume calculations, and construction progress tracking. We also conduct safe, non-intrusive UAV inspections to assess hard-to-reach structures, ensuring compliance and operational efficiency.

Ground-based inspections utilize precise Ground Control Point (GCP) measurements to ensure high accuracy in surveys and assessments. Coupled with UAV technology, this approach enables seamless integration of ground and aerial data, providing reliable insights for topographic mapping, structural evaluations, and compliance with industry standards. This combination ensures accuracy, efficiency, and comprehensive results for your projects.



Silo inspections and visual surveys utilize precise Ground Control Point (GCP) measurements to ensure accuracy in structural assessments. Coupled with UAV technology, this approach enables detailed evaluations of silos and comprehensive visual surveys, offering reliable insights into structural integrity, deformation, and compliance with industry standards. This combination delivers efficient, thorough, and dependable results for your projects.

NON DESTRUCTIVE TESTING

We focus on providing expert inspections and certifications for aboveground storage tanks and pipelines, utilizing cutting-edge non-destructive testing equipment from top-tier manufacturers. Our certified and highly skilled technicians excel in analyzing technical data, delivering proactive reports and preventative maintenance solutions that safeguard the integrity and extend the lifespan of your assets.



- Floor Mapping
- Hand Scan
- Rapid Motion Scanner (RMS)
- Remote Access UT Crawler
- Wall Thickness Testing
- Pipescan
- UT Lite
- Vacuum Box
- Inspector Management Suite
- Phased Array Ultrasonic Testing
- Pipe Scanning
- Radiographic testing

THANK YOU



WE ARE READY TO ASSIST YOU

National Quality Inspections (NQI) delivers reliable engineering inspections across Africa with precision and adherence to codes and regulations. Leveraging advanced technologies like 3D laser scanning, UAVs & NDT, we are dedicated to customer satisfaction and driving industry progression.



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