

COMPANY PROFILE

SCOPE OF WORK OFFERED BY PROBITAS:

- ✓ **STATUTORY INSPECTION & TESTING (STEAM GENERATORS, LIFTING EQUIPMENT, PRESSURE VESSELS, TANKS).**
- ✓ **NON-DESTRUCTIVE TESTING OF EQUIPMENT (NDT):** {MPI/ MT; UT; RT; EM; PT; HPT; VE; LD}.
- ✓ **DESIGN VERIFICATION & PROOF LOAD RATING TESTING.**
- ✓ **INSPECTION DURING IN-SERVICE, REPAIR, PRE/ POST SHIPMENT, COMMISSIONING & MANUFACTURE**
- ✓ **CODING, APPROVAL & CERTIFICATION OF WELDERS (MMA, TIG, SUB-ARC, MIG, CO₂)**
- ✓ **CALIBRATION OF EQUIPMENT & INSTRUMENTS.**
- ✓ **MECHANICAL TESTING & CHEMICAL ANALYSIS.**
- ✓ **RELIABILITY SYSTEMS& CONDITION-RISK BASED MONITORING.**
- ✓ **TECHNICAL ASSESSMENT, TRAININGS & QUALITY CONTROL.**

i) Inspection & NDT Equipment scope:

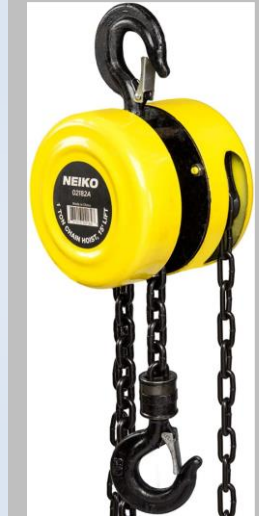
(Pressure & Lifting Equipment)

- Fire, electrode & water tube Boilers.
- Heat exchangers, Calorifiers
- Elution Vessels, Autoclaves.
- Ammonia& CO₂ bullets, Accumulators
- Ball Mills, Rod Mills, Jaw Crushers, trunnion liners.
- Pressure vessels, Air receivers, Compressor, Safety valves.
- HP & LP steam lines.
- Tanks – (Processing, floatation, Storage, fuel, water, food).
- Shafts, Gears, Gearboxes.
- Lifting tackle/ lifting gear.
- Overhead & mobile Cranes, forklifts, jacks, humble hooks, snatch blocks.
- M/E Chain blocks, tick tocks, Hoists, sheaves, drums, beam crawlers.
- Tirfor, Come Along, ladders.
- Wire /nylon slings, D& bow Shackles, Gantries, safety harness.
- Hoggers, chippers
- Wire ropes, Lifelines, Safety harness.

ii) Calibration instruments Scope:

- Pressure gauge, pressure relief valves.
- Scales, Balances, Mass pieces.
- Vernier callipers, Micrometers, Rulers, Tape measures, Gauge blocks & rods.
- Thermometers, Temperature controllers & probes, IR, cold rooms, thermocouples, Compression Machine
- Centrifuge, distance meters. etc.

2021



*** Probitas Management**

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1) Company Preamble:

Probitas Engineers is an **ISO 17020:2012 SADCAS Accredited organisation** which is registered as a private limited company incorporated in Zimbabwe under the Zimbabwe Companies Act (Chapter 24:03) on 24 March 2017. We are situated at 14 Austin Rd, Workington Industrial site in Harare.

1.1) Vision Statement:

To be the leading, credible and preferred brand in Inspection, NDT, Testing, Training and Calibration services.

1.2) Mission Statement

Probitas Engineers is committed to provide a safe working environment to the industry by ensuring compliance & reliability through performing competent inspection and testing services that facilitate industrial growth.

1.3) Competitive Edge

Our competitive advantage is a direct reward from the competence, delivery efficiency, agile responsiveness and flexibility of our system of operation. We are wholly dedicated to implementing quality at the source and to continually improve our operations to assure our valued clients a safe work place and value return for engaging Probitas Engineers.

1.4) Core Values

- i. Customer & employee satisfaction.
- ii. Agile responsiveness to customer needs.
- iii. Safe work environment provision for all.
- iv. Integrity, Reliability and Credibility.
- v. Continual Improvement.



1.4) Service Scope: Probitas Engineers is accredited, authorized and certified by Government under Factories & Works Inspectorate-NSSA, Ministry of Mines Inspectorate to extend its services to the Mining industry, Production sector, FMCG, Fabrication, Food-Beverages, Civil &

Construction, Energy industry, Packaging, Agriculture, Petrochemical, Power plants, Material Processing, Transport, Metallurgical Foundry, Paper-Pulp. Probitas is accredited by SADCAS certification body for the scope of Independent Inspection Authority for pressure equipment (Boiler & Pressure Vessels) during In-service and during manufacture including Design Verification scope. We test wrought/ingot products, castings, steels, weldments, powder metallurgy, extruded, rolled & drawn products for certification of integrity against the presence of internal & surface defects. The Company carries out Statutory Inspections, NDT, Testing, Calibration & Integrity Certification of lifting and plant Equipment according to the Factories and Works Act (Chapter 14:08) of 1996, Government Factories regulatory 263, 303 & 279 of 1976, Mining (Management & safety) Regulations 109: 1990. Probitas Engineers also performs training & assessment of technical personnel such as welder coding certification, working with lifting equipment, riggers and personnel working at heights. We perform Statutory and Non-Statutory Inspection & Non Destructive Tests on all lifting equipment & pressurized equipment for both fired and unfired; underground or above ground units. We also do proof load test and hydrostatic pressure testing. We also specialize in calibration services of all workshop precision tools, factory, laboratory & production measuring instruments in the scope of pressure, mass, volumetric, metric and temperature.



2) Probitas Technical Services Offered:

2a) **Independent statutory and Non-statutory inspections** - We do Authorized Independent Inspection services as SADCAS Accredited AIIA inspectors in accordance to International & local legislature S.I.109 of 1990 of mines, Factories and Works (Pressure vessels) Regulations, RGN 303:1976; Factories, RGN 279: 1976 (boilers) & Factories Act 14:08. We do inspection in accordance to the respective ISO, BS/EN, ASME, SABS, AS, API &/ ASTM,

international standards of application to a certain scope. We conduct Statutory & Non-Statutory Inspection of industrial and mining equipment, engineering instruments & industrial systems.

- Visual inspections are done in accordance to BS/EN 13018:2001 & ISO 9712. Inspections addresses OSHAS regulations and thus reduce repair costs and unnecessary downtime. Inspections ensure compliance and extend the lifetime of equipment. Inspections play a pivotal role in safe working practices with pressurized equipment lifting equipment and working at heights.



2b) **Non- Destructive Testing** – NDT is performed to test without destructing the component. We have capacity to perform the following integrity tests to check for surface, near surface and internal flaws/ defects which will be assessed in accordance to specific NDT codes/standards to determine general compliance and fitness for continued or initial use. These techniques are also used during failure investigation to solve hidden engineering technical root causes:

Non-Destructive Tests Done

- Magnetic Particle Inspection (MPI /MT)
- Ultrasonic Flaw Detection and Flaw Sizing (UT)
- Ultrasonic thickness gauging/survey.
- Liquid penetrant test (PT)
- Radiographic testing/ X-Ray flaw detection and X-ray Film interpretation.
- Hydrostatic Pressure testing (HPT)
- Leak detection
- Electro-magnetic testing (EM)
- Hardness determination (HRC; HRB; HB; HL scale etc.)



- These stated tests are usually employed to test various industrial and mining equipment which include

{ Boilers; Pressure vessels; Air receivers; Elution vessels; Tanks (horizontal & vertical), HP steam lines; Hoists; Overhead and Mobile cranes; Gantries; Lifting equipment; chain blocks; Ball mills; Crushers, Wire ropes. etc.}



2c) Inspection during manufacture & Design Verification

Probitas Engineers is accredited under ISO/IEC 17020: 2012 to perform verification of design calculation, design verification and engineering working diagrams in accordance to relevant standards for pressure equipment. We carry out technical assessment on products to evaluate compliance & competence of the personnel used, materials used, methods used etc. in civil, mechanical, production or electrical projects.



2d) Inspection of Lifting Equipment.

Lifting equipment is inspected and tested to assure that the equipment still complies to the safety criteria stipulated in respective regulations in terms of mechanical strength, suitability of material and construction modes and carrying capacity meeting the intended loads to be lifted or lowered. Fitness for use is guaranteed through rigorous inspections and testing to assess integrity before use and to eliminate the possible use of defective equipment. The usual scope of inspection include Visual examination, Magnetic particle inspection, ultrasonic flaw detection, functionality tests, wear assessment, Deflection assessment, load tests, Proof Load testing and load sizing.

Probitas Engineers performs statutory and quality assurance inspection inspections of Lifting Equipment, Lifting Gear, Lifting Tackle in accordance to RGN 263: 1976 Factories general regulations and international codes. Inspection of **Lifting Equipment/lifting tackle/lifting gear include:** (Overhead & mobile Cranes, forklifts, scissors lifts, cherry picker, jacks, humble hooks, snatch blocks, Manual & Electric Chain blocks, tick tocks, Hoists, sheaves, drums, beam crawlers, support beams, platforms, Tirfor, Come alongs, ladders, staircases, Wire /nylon slings, Dee & bow Shackles, Gantries, safety harness, Wire ropes, Lifelines, Safety harness, Pulleys, Winches, Winders,):



2e) Calibration of equipment

We do calibration of measuring, process and test instruments in the scope of pressure, mass, temperature, volumetric & dimensional. Instruments we calibrate include Pressure gauge, pressure relief valves, Scales, Balances, Compression Machines, Mass pieces, Vernier callipers, Micrometers, Rules, Tape measures, Gauge blocks & rods, Thermometers, Temperature controllers & probes, IR, cold rooms, thermocouples, Compression Machine, Centrifuge, distance meters, multimeters, etc



2f) Coding / Approval & Certification of Welders

We do welder approval /coding and certification of Welders to (MMA, TIG, Submerged Arc, MIG, CO₂) in accordance to ISO 9606:2012 and ASME.



3) Equipment and Personnel

– We are equipped with modern, calibrated, portable and digital instruments, which give credible and traceable results during inspection, testing & calibration. We do inspections and tests through technically competent, experienced, qualified, skilful, responsible & responsive members of staff with deep engineering principles, manufacturing, testing and mechanical background.

- Our highly esteemed staff have relative applicable trainings, skills, experience, qualifications and required levels in various Engineering disciplines critical NDT techniques, inspection and Calibration techniques {Welding inspection, quality control during repairs and manufacturing, Inspector competent person, ISO 17020, 17025, UT, MT, RT, OES, EM, HPT and PT etc}.

4) Quality Management System and Accreditation

- The operations of Probitas Engineers for Inspection of pressure Vessels are guided by our Accredited Quality Management System (2021-2026) audited to the requirements of International standard of ISO/IEC 17020: 2012 and SADCAS TR 05: 2012. The accreditation body SADCAS (Southern African Development Community Accreditation Service) is a subsidiarity organization of SADC. SADCAS serves as the basis for the recognition of SADCAS by SADC member states as a multi-economy accreditation body. It is based in Botswana with the scope of accrediting and certifying Inspection, testing and certification organisations in the SADC region. ISO/IEC 17020:2012 is an international standard that stipulates the minimum conformity assessments requirements for Inspection services. Probitas Engineers is highly committed on delivering a quality-enhanced service to guarantee safe operations through implementation of a Kaizen concept for continuous improvement. Probitas Engineers is accredited under facility **Accreditation Number: INSP-5 007** undertaking Type A inspection category in the inspection of boilers and pressure vessels. The accreditation demonstrates technical competency for a defined scope and the operation of a quality management system. Probitas Engineers is accredited to perform both in-service inspections and manufacturing of pressure equipment.

- **Name of Organisation** : Probitas Engineers (Pvt) Ltd
- **Physical Address** : 14 Austin Road Workington, Harare, Zimbabwe
- **Registration Number** : 2111/2017 *Dated : 24/03/2017*
- **VAT Number** : 10080121 *Dated : 01/07/2019*
- **Business Partner Number** : 200196463
- **NSSA Inspection Licence No.** : RP094
- **Email Addresses** : probitasengineers@gmail.com ; sales@probitaseng.co.zw
- **Website** : www.probitaseng.co.zw
- **Facebook** : Probitasengineers
- **Accredited to** : ISO/ IEC 17020: 2012
- **SADCAS Accreditation No.** : INSP-5 007 (2021 to 2026)

