



TBT PROGRAMME
OVERCOMING TECHNICAL BARRIERS TO TRADE



LABORATORY ACCREDITATION

ISO/IEC 17025: 2005

SANAS

(General Requirements for the Competence of
Testing and Calibration Laboratories)

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ACCREDITATION

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- **SANAS – South African National Accreditation System**
- **Recognised by various accreditation authorities throughout the world**
- **Member of ILAC (International Laboratory Accreditation Cooperation)**
- **Act No. 19 of 2006: Accreditation for Conformity Assessment, Calibration and Good Laboratory Practice**



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WHO DOES IT APPLY TO ?

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ISO 17025:2005 Standard can be applied to any permanent or mobile laboratory who performs calibration and/or testing for its own or external organizations



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WHY ACCREDITATION ?

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- Test results are underwritten by an accreditation authority
- Market share
- Benchmark for performance
- International recognition of laboratory/results



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WHAT IS NEEDED?

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- **Implementation of Quality Management System according to ISO 17025:2005 and SANAS requirements**
- **Compiling set of manuals to describe the system**
- **Test methods are scrutinised to ensure accepted practices are conducted, validated**



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WHAT IS NEEDED? (Continue)

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- Audits are conducted using ISO 17025:2005, SANAS requirements and own manuals as basis to ensure system effective in promoting accurate analytical work and compliance
- All deviations are eliminated by means of corrective actions
- Pre-assessment – Lead Assessor / implementation of Quality Manual
- Complete system is then assessed by accreditation authority (SANAS / SADCAS)



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ACCREDITATION PROCESS

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2. Initial assessment:

Lead Assessor: Management Requirements

Technical Assessor/s: Technical Requirements

- Witness of methods (Evaluation of procedures, techniques, competence of analysts)
- Vertical (Evaluation of test reports and records)
- Evaluation of PTS results and validation procedure/
data/reports



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WHAT IT IMPLIES

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- Testing laboratories are accredited for specific test methods or techniques
- Analysts, Quality Manager (NR) and Technical Signatories are proven competent
- Using of appropriate validated methods
- Demonstrate acceptable results are obtained from Proficiency Testing Schemes



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WHAT IT IMPLIES (Continue)

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- Equipment suitable, calibrated and maintained
- Testing environment suitable
- Quality control procedures in place
- Results traceability to international standards



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