



TBT PROGRAMME
OVERCOMING TECHNICAL BARRIERS TO TRADE



LABORATORY ACCREDITATION

ISO/IEC 17025: 2005

SANAS

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

Elzabe Truter



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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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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**





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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