

“PROFESSIONALIZING FIRE RISK ASSESSMENT”

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SANAS

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1. Intro to SANAS
2. Inspection Program
3. Accreditation
4. Professionalizing Fire Risk Assessment
5. Conclusion

- SANAS is the only national accreditation body
- The Accreditation for Conformity Assessment, Calibration and Good Laboratory Practice Act (Act 19 of 2006).
- SANAS provides accreditation to Conformity Assessment Bodies including:

Conformity Assessment Bodies (CABs)

Independent organisations that assess, verify and attest that products, services, processes or systems comply with specified requirements.

TESTING LABORATORIES



Perform tests on products, materials or samples to determine compliance with relevant standards.

CALIBRATION LABORATORIES



Calibrate measuring instruments to ensure accuracy, reliability and traceability.

INSPECTION BODIES



Inspect products, processes, systems or installations and determine compliance with specified requirements.

CERTIFICATION BODIES



Certify that products, services or management systems meet specified standards or requirements.

MEDICAL LABORATORIES



Perform medical testing on patient samples to support diagnosis, treatment and public health.

PROFICIENCY TESTING PROVIDERS



Evaluate the performance of laboratories or inspection bodies through proficiency testing schemes.

BIOBANKS

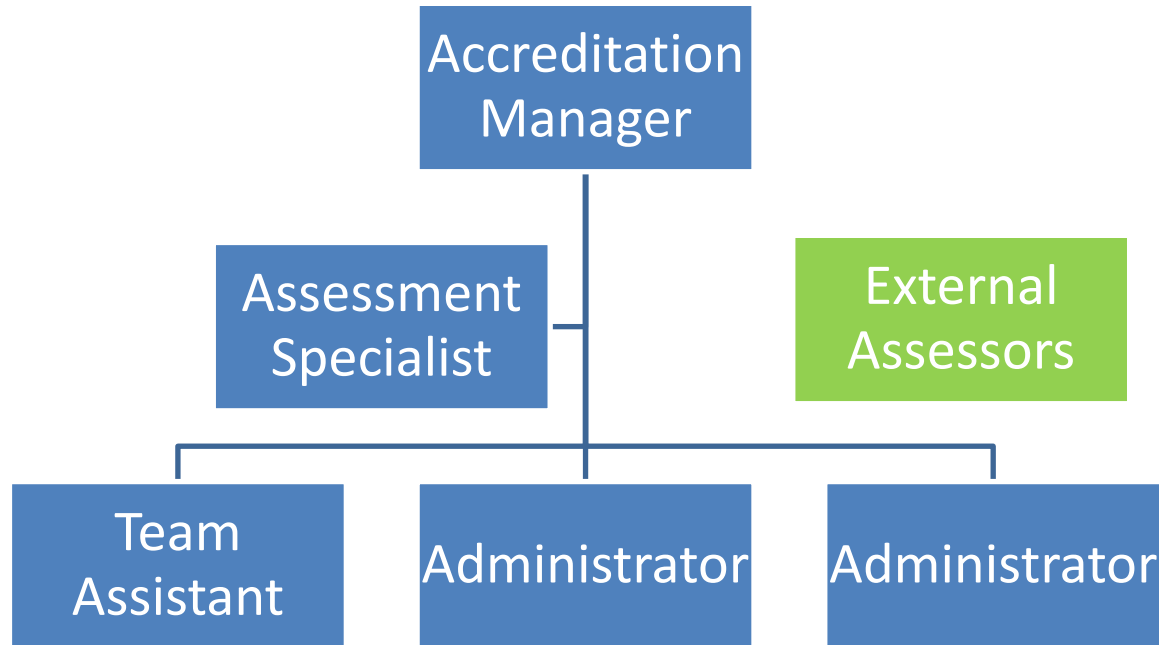


Store and manage biological materials for research, clinical and other approved purposes.

CABs play a vital role in supporting quality, safety, health, the environment and consumer protection.

- The SANAS Inspection Programme accredits Inspection Bodies in accordance with:
 - ISO/IEC 17020:2012 – Conformity Assessment: Requirements for the operation of various types of bodies performing inspection
- Inspection bodies are assessed for:
 - Technical competence
 - Independence and impartiality
 - Consistency of inspections
 - Qualified personnel
 - Effective management systems

OVERVIEW OF THE DIVISION



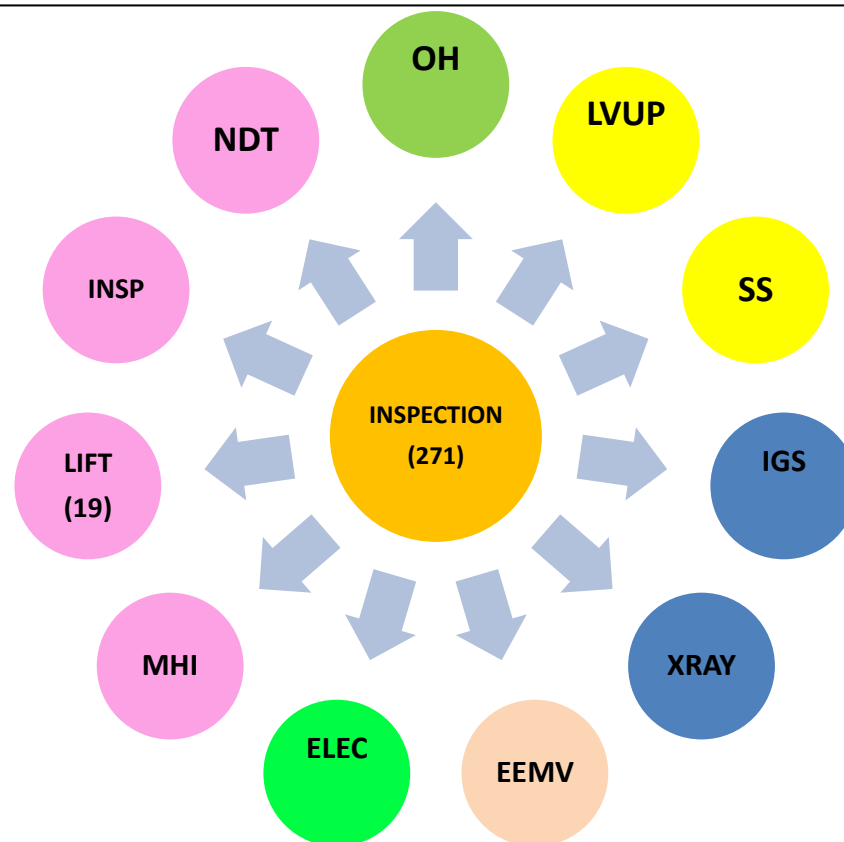
Typical work in the Accreditation Programmes:

- Planning of assessments
- Allocation of Assessors
- Arrangements of Travel and Accommodation
- Processing of Non-conformances
- Accreditation decision making processes
- Updating of website
- Client liaisons/Complaints/Queries
- Maintenance of Technical Integrity (STCs)
- Stakeholder engagement
- Training and monitoring/ Performance Appraisals

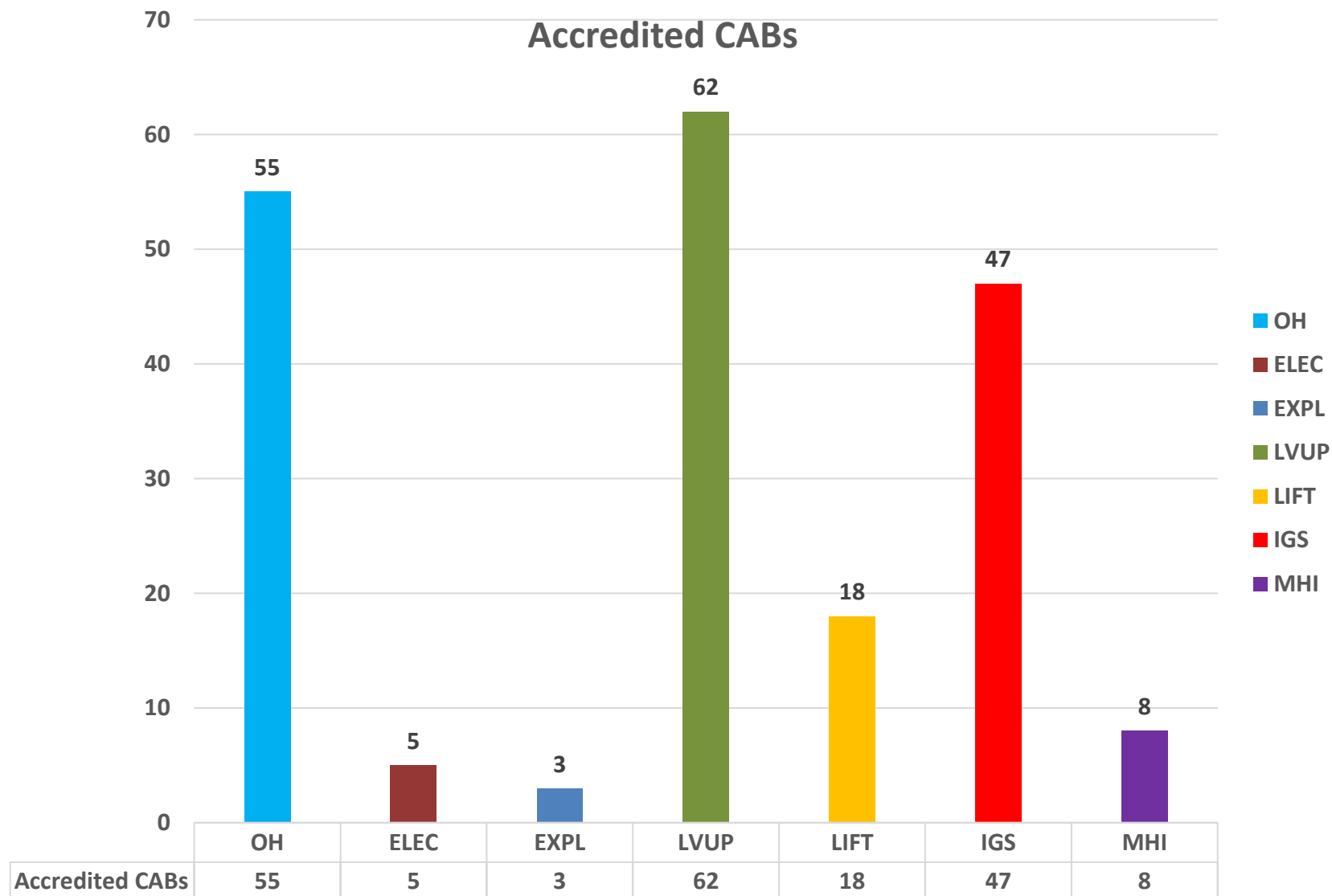


INSPECTION [279]

Disciplines / Sectors



Number of Accredited CABs per Regulation



Accreditation is a formal recognition by an authoritative body that an organisation is competent to perform specific conformity assessment activities in accordance with ISO/IEC 17020:2026 standards and requirements.

SANAS accreditation demonstrates that a Conformity Assessment Body (CAB), such as a laboratory, inspection body, or certification body, has the necessary:

- Technical competence
- Qualified personnel
- Management systems
- Equipment and resources
- Impartiality and consistency
- to deliver reliable and credible results.

Accreditation is a formal recognition by an authoritative body that an organisation is competent to perform specific conformity assessment activities in accordance with internationally accepted standards and requirements.

Aspect	Voluntary Accreditation	Regulatory Accreditation
Participation	Optional and market-driven	Mandatory by law or regulations
Purpose	Improves credibility and competitiveness	Ensures legal compliance and public safety
Driver	Customer and industry requirements	Government and regulatory authorities
Example	ISO/IEC 17025 laboratory accreditation	MHI and statutory inspection accreditation

REGULATORY MANDATE: IGS Inspection

■Regulatory

Guidance Notes to the Pressure Equipment
Regulations 17 July 2009

Department of Labour

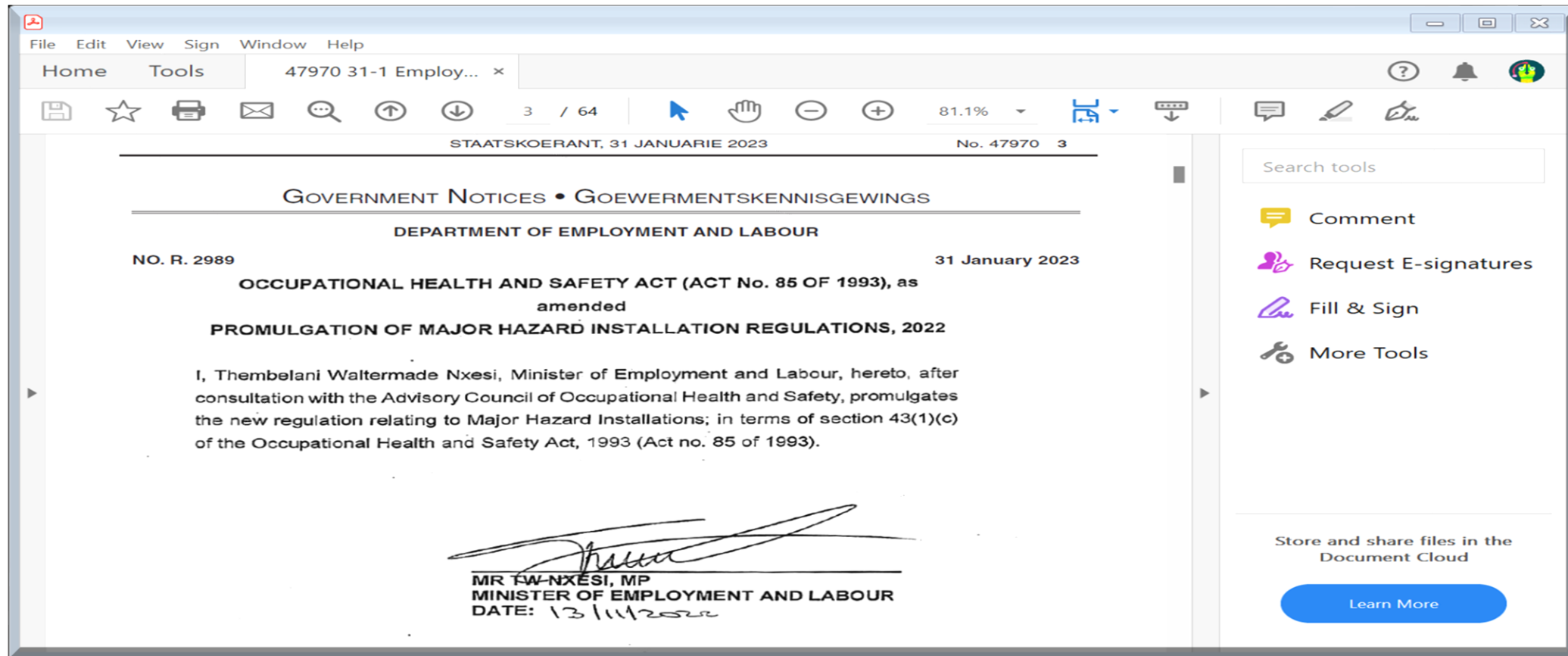
Occupation Health and Safety Act, Act 85 of 1993

Revision 1

PER Reg 11.1 (s):

Transportable gas containers
shall be inspected by a
SANAS accredited and DEL
approved gas test station.

Examples



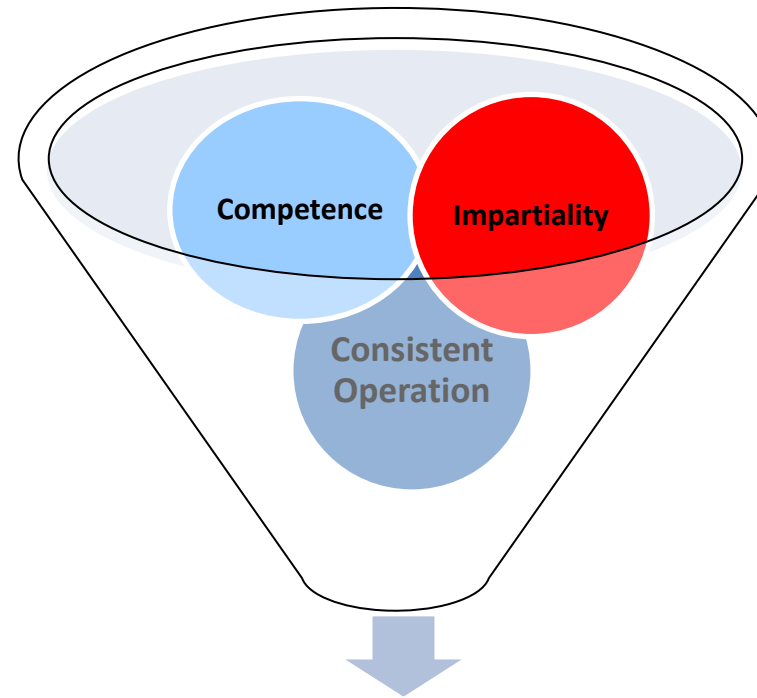
Risk assessment

10. (1) A duty holder must, after consultation with the relevant health and safety representative or health and safety committee, ensure that an **approved inspection authority** carries out a risk assessment in accordance with SANS 1461 at intervals not exceeding five years or when there is a change in the establishment.

ACCREDITATION

Accreditation is an **independent** confirmation of **competence**, credibility, and **consistency**

The accreditation is underpinned mainly by the following elements 3 amongst other requirements:



Pillars of Accreditation

As reference: **Major Hazard Installation Accreditation**

Why:

- Already Accreditation
- Regulatory scope
- Risk Assessment Model/Template
 - Matrix
 - Reporting template
 - Qualifications
 - Etc.

Establish Specialist Technical Committee (STC)

Comprised of:

- Fire Industry/community
- Association(s)
- Academic Institutions
- Regulators
- Organised Business
- Organised Labour
- Individuals
- Observers

- **More than 20 facilities were reported for investigations:**
 - All generic technical aspects with respect to Accreditation and/or GLP Compliance Monitoring in their scope of expertise;
 - Solutions to technical challenges in their scope of expertise;
 - The technical content of SANAS audits and/or proficiency testing programmes, where relevant to the specific scope of accreditation / compliance;
 - Generation and review of SANAS Technical Requirements and Guidance documents, ensuring that any such documents generated do not contradict or exclude any of the requirements included in relevant international standards and/or other normative documents;
 - Maintenance of the criteria for demonstration of competence in their scope of expertise.
 - Provision of specialised input to national regulations and national / international standards.
 - Provision of specialised input to appropriate work items and / or documents of regional or international accreditation forums or co operations.

Technical Requirement (TR) Document



DEPARTMENT OF EMPLOYMENT AND LABOUR



TR 54-07

DEPARTMENT OF EMPLOYMENT AND LABOUR AND SANAS
TECHNICAL REQUIREMENTS FOR THE APPLICATION OF
SANS/ISO/IEC 17020:2012 IN THE REGULATORY
ASSESSMENT OF MAJOR HAZARD
INSTALLATION INSPECTION BODIES

Table 1. – Qualifications Requirements

The table: below sets out minimum qualifications and experience requirements that are deemed such to ensure competence to the required functions of an MHI Approved Inspection Authority.

Position	Theoretical base	Practical Base	Specialised Training
Technical Manager (However named)	University Degree, Bachelor Of Technology or Higher National Diploma. <u>Field of study:</u> Chemistry or Engineering.	5 Years' working experience within an industry that would typically qualify as MHIs.	* Other training: Training on Risk Assessment.
Quality Manager (however named)	Specific courses / training in the field of Inspection Body management systems or equivalent.	5 Years' working experience with Quality Management and auditing techniques as applied under ISO 17020.	Quality Management and auditing techniques
Technical Signatory / Risk Assessor / Inspector	Technical or Scientific tertiary qualification with at least 2 years of tertiary chemistry included in the qualification.	Have at least 3 Years' relevant Risk Assessment experience in the industry as per scope of accreditation required.	*Other training: Risk Assessment methodologies.

* Shall demonstrate knowledge and competence in the work instructions of the MHI Approved Inspection Authority, SANS/ISO/IEC 17020, Occupational Health and Safety Act and MHI regulations (latest revision). Shall have attended courses (internal or external) to support the scope of accreditation e.g. QRA, hazard analysis, consequence analysis, emergency planning (SANS 1514), Process Safety Management, hazard identification, environmental impact assessments, explosion prevention, fire protection, etc.)

Note: Achievement of qualifications and completion of training and experience is not a guarantee of practical competence in inspection or the development of sound professional judgement.

- Personnel with the CAB
- Qualification & Experience

- **Scope**

- Risk assessment of
- Qualitative
- Quantitative
- Template
- Acceptable Software
- the consequence modelling and for the risk calculations
- SANS 1461

- **STC – Consultation & Agreement**
- **Scope**
 - **Quantitative vs Qualitative**
 - **Software**
- **Technical Document**
 - **Personnel Qualification**
 - **Defined inspection procedures and methodologies.**
 - **Competence management systems for inspectors.**
 - **Use of technical reviews and independent verification.**
 - **Structured reporting and traceability of findings.**
 - **Commitment to continual improvement.**

*Thank
you*

