



# Mining And Surface Certification (Pty) Ltd

## QUALITY POLICY STATEMENT

The policy of Mining And Surface Certification (MASC) is to provide, in the most cost-effective manner, independent and impartial certification and inspection services which combine technical competence with objectivity and integrity.

The Service is non-discriminatory in operation, with no undue financial or other conditions, and is available to all.

It is the policy of the company to achieve and maintain recognised accreditation for its activities in order to demonstrate its commitment to providing an efficient, commercially aware, competent service.

- We, Roelof Viljoen and Francoius Du Toit (International Operations Director & National Operations Director respectively) of Mining And Surface Certification (MASC) are committed to the concept of effective and efficient test and assessment results via third party recognition / accreditation e.g. SANAS / IECEx.
- MASC endeavours to offer, at all times, services / test and assessment results that comply with the requirements as specified in the Management Requirements of:
  - \* ISO/IEC 17025: 2005 / 2017; "General requirements for the competence of testing and calibration laboratories". Accreditation to SANAS demonstrates compliance to this standard.
  - \* ISO/IEC 17065: 2012; "Conformity assessment – Requirements for bodies certifying products, processes and services"
- The Management of MASC commits the company and its personnel to professional conduct and practice, as well as a high level of quality in all activities.

### COMPANY VISION

It is the vision of MASC to:

- Be the professional explosion prevention Test Laboratory, Certification Body, Markscheme provider and other services supplier of choice for the South African industry;
- To be an active and respected professional explosion prevention Test Laboratory, Certification Body and other services supplier in the International market.
- To become a centre of excellence in the provision of Ex Training / Hazardous Location training in South Africa.

### OUR MISSION

It is the mission of MASC to partner with our clients to provide all encompassing solutions that meets legal, technical and commercial requirements.

In support of this mission we will:

- Respect the authority bestowed upon MASC to issue certificates and reports;
- Provide effective and efficient testing facilities;
- Provide technically up to date and superior service;
- Provide cost effective and timeous service;
- Promote knowledge transfer to industry / clients,
- Participate in the formal development and maintenance of hazardous locations / standards and regulations.
- Develop, maintain and present up to date practical training according to latest best practices and NQF objectives.



Mining And Surface Certification (Pty) Ltd Reg. No: 2015/021934/07

VAT No: 4020250801, Directors: Roelof Viljoen & Francoius du Toit

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# Mining And Surface Certification (Pty) Ltd

## QUALITY POLICY STATEMENT

### OUR VALUES

**1. Customer Satisfaction**

Recognizes that customers are the reason for our existence.  
We will exceed the expectations of both internal and external customers.

**2. Integrity & Ethics**

Will maintain the highest level of professionalism, honesty and fairness in all aspects of our work.

**3. Accountability**

Accepts responsibility for work performed and behaviour.

**4. Quality & Reliability**

Personnel of MASC accepts responsibility for the quality of all tasks we perform. Our products and services will be the best in its class.

**5. Mutual Respect & Teamwork**

The personnel of MASC work together cooperatively to satisfy a common goal with consideration for all team members.

**6. Innovation**

MASC will strive to create new ideas to improve the products, processes and the work place for ourselves and our customers.

**7. Safety**

A safe work environment for all stakeholders within the scope of the service(s) we render is the overriding priority of our company.

**8. Impartiality, Conflict of interest, Confidentiality**

MASC will maintain the highest level of impartiality and confidentiality to prevent a conflict of interest that may jeopardise our integrity and reputation.

MASC



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## QUALITY POLICY STATEMENT

### OBJECTIVES

- To **provide feedback** to a client for a project submitted within 3 weeks from submission date.
- To **issue the report, relevant drawings and certificate** within 1 week on completion of project.
- To have **zero mistakes w.r.t a technical or formatting** nature continuously on issued documentation.
- To issue **accurate quotes every time** according to **customer** and MASC requirements, so as to achieve compliance to the Quality-system and achieve profitability.
- To **ensure sufficient and competent personnel** to achieve profitability, turnaround on projects of 3 weeks feedback, within quality requirements.
- To achieve an **acceptable level of equipment** on an ongoing basis **to test according** to the quality and the standard's / accreditation requirements.
- To **minimize external complaints** to less than 1 complaint within a 6 month period.

# MASC



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MASC is a South African Certification Body and Test laboratory with the following Accreditation / Approval / Membership:

- SANAS Test Laboratory (T0444)
- SANAS Certification Body (C83)
- IECEx (Certification Body (ExCB) & Test Laboratory (ExTL))
- DMR (Department of Mineral Resources)
- DOL (Department of Labour)
- SAFA (South African Flameproof Association)

### MASC services include:

- **IA Certification and IECEx Certification:**

MASC can assist in IA certification for South African Ex certification requirements as well as IECEx certification (International).

#### Background to IA Certificates:

- Requirements for IA certificates are governed by:
  - ARP 0108: 2018 "Regulatory requirements for explosion- protected apparatus"
  - SANS 10108: 2014 "The classification of hazardous locations and the selection of equipment for use in such locations"
- Some important definitions are as follow:
  - **Accredited test laboratory (ATL)**  
Test laboratory that is accredited by a government-endorsed accreditation body (see foreword), and approved by the relevant regulator(s) to carry out tests specified in the appropriate standards and to issue certificates (known as IA certificates) for explosion-protected apparatus (EPA) indicating that such apparatus complies with safety requirements and any other requirements of the relevant regulator(s)
  - **IA certificate (Type certificate)**  
National certificate issued for Ex equipment by an ATL endorsing conformance with the relevant national standards.  
NOTE 1: IA certificates apply to both surface (group II and group III) and mining (group I) applications.
- The applicable certification requirements referring to IA certificates includes the following:
  - **Annex A (ARP 0108:2018)**  
A.1 - In South Africa, all explosion protection equipment (EPA) used in underground mines (group I) and on the surface (group II an III) shall be covered by an IA certificate.

This includes machines; to qualify for certification a machine shall be made up of equipment with valid certification.

The requirements given in A.2 to A.19 cover the validity of IA certificates.

A.2 - All IA certificates issued shall have a validity period of 10 years for manufacturing purposes.

EPA having been manufactured under a valid IA certificate will not be affected when the certificate expires; in other words, such products will be considered to still have valid certification.

An IA certificate based on overseas certification will be valid, depending on the continued validity of the overseas equipment certification as well as product quality assurance, for a maximum period of three years. It is the







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## SERVICES

responsibility of the IA certificate holder to ensure that an updated quality system certificate is submitted to the relevant ATL if the validity period is less than three years.

For renewal of certification, a new IA certificate number shall be issued. For certification of modifications affected to equipment within the validity cycle, a supplement may be issued if the original certifier is involved; otherwise a new certificate shall be issued.

○ How to obtain an IA Certificate.

The following information must be submitted:

- Product is not certified:  
Submit application (provided on request), drawings, instructions and related QAR/QAN (as applicable).
- Product is ATEX Certified:  
Submit letter of application (alternatively an application form can be forwarded), Certificate (all issues), a copy of the QAN and instructions. Submission of stamped drawings is preferred but not required.
- Product is IECEx Certified:  
Submit letter of application (alternatively an application form can be forwarded), Certificate (all issues), a copy of the QAR (Web based version acceptable) and instructions. Submission of stamped drawings is preferred but not required.
- Product certified to alternative schemes:  
Submit letter of application (alternatively an application form can be forwarded), Certificate (all issues), a copy of the QAN / QAR (or alternative Ex quality assurance listing) and instructions. Submission of stamped drawings may be required.

Based on the above a quotation will be forwarded.

● **MASC Certification Support:**

Background:

MASC has more than 35 years' experience in the certification industry in South Africa and international certification markets, including ATEX, IECEx, South Africa, ANZEx etc. With this experience comes a practical and functional knowledge of the standards, technical requirements and practical applications. MASC has identified the need for standards interpretation and practical implementation. Therefore, a function was introduced where MASC may assist clients separate to the test and certification process.

Why does MASC not cover this during the certification and testing process:

As a test laboratory and certification body impartiality must be maintained w.r.t. the testing and certification process. Therefore, the MASC personnel actively involved in the testing, inspection and certification of a product / system / installation / machine, may not make recommendations or give certification support w.r.t. compliance and practical ways to achieve certification.

Service:

MASC can deliver services in the separate function (Separate from the test and certification process) including; Regulations, Certification support, Certification documentation / Drawing compliance, Design concerns, Quality system requirements, certification processes etc. Within this function it is best to indicate the requirements and MASC will do a proposal w.r.t. how they can assist.



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### Process:

- The process is started before a submission. However, if during a submission issues are identified by the test / certification / inspection personnel, clients may also make use of this function to clarify / interpret / improve the certification / product / installation.
- The issue is submitted in writing, e.g. via e-mail to MASC.
- A quote and costing is agreed.
- MASC assists in a written response, e.g. may be via e-mail.
- If a meeting is required, it may be incorporated as part of the service delivery.

We are looking forward to further assisting industry in improving / achieving the certification and compliance requirements.

In addition, MASC can assist with the following additional services:

- **Ex Training / Hazardous Location training:**

Courses include:

- **Hazardous Locations**
  - Hazardous Locations
  - Concepts
  - Installation, Inspection and Maintenance
- **Intrinsic Safety:**
  - Practical Intrinsic Safety Systems (Loops), Installation, Inspection and Maintenance
  - Design
  - Manufacture and Repair
  - Certification drawings and Submission requirements
  - Concepts
- **Flameproof:**
  - Manufacture and Repair
  - Design
  - Certification drawings and Submission requirements
  - Concepts
  - Installation, Inspection and Maintenance
- **Non-Sparking / Dust Ignition Proof / Other techniques or topics as required:**
  - As required
- **Customised courses according to client requirements**

- **MASC Markscheme / Quality System Audits (According to ATEX, ANZEx and IECEx guidelines) IECEx QAR's (according to IECEx rules)**
- **Consultation / Product development support (Please refer to MASC Certification Support)**
- **International Certification & Support (IECEX, ATEX, ANZEx)**
- **Area classification / Hazardous Area Classification**
- **Inspections (Mine machines / installations etc.)**
- **Loop approvals / Intrinsic safety system approvals**



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# Mining And Surface Certification (Pty) Ltd

## SERVICES

### Contact details:

	<b>MASC Certification, Testing, General</b>	<b>MASC Training</b>	<b>MASC Markscheme</b>	<b>International Certification Services (ICS), IECEx / QAR</b>
Contact:	Francoius du Toit Danie Visser	Juandri de Wet	Tony Mouton	Terine Orsmond Regardt Zeelie
Contact no:	+27 (0)12 653 2959	+27 (0)12 653 2959	+27 (0)12 653 2959	+27 (0)12 653 7594
Cell no:	+27 (0)83 477 8000	--	+27 (0)82 394 3331	--
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E-mail:	<a href="mailto:info@masc-ex.co.za">info@masc-ex.co.za</a>	<a href="mailto:training@masc-ex.co.za">training@masc-ex.co.za</a>	<a href="mailto:tonym@masc-ex.co.za">tonym@masc-ex.co.za</a>	<a href="mailto:orsmond@masc-ex.co.za">orsmond@masc-ex.co.za</a> <a href="mailto:regardt@masc-ex.co.za">regardt@masc-ex.co.za</a>
Address:	45 Jurg Ave, Lelyta Park Unit 5, Hennospark Ext 87, Centurion, Gauteng, 0157, South Africa			

### Website address:

[www.masc-ex.com](http://www.masc-ex.com)

MASC welcomes you to contact us with your Ex certification / Hazardous locations requirements in which we will provide you with a competent and widely recognised service in all aspects required for your Hazardous location product / facility.

**MASC always offers a quick turnaround time and competitive price with a much higher value to cost ratio than the competitors.**

Please do not hesitate to contact us with your next project.

Roelof Viljoen  
Managing Director  
Mining And Surface Certification (MASC)



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## COMPANY PROFILE

### Contact details:

	<b>MASC Certification, Testing, General</b>	<b>MASC Training</b>	<b>MASC Markscheme</b>	<b>International Certification Services (ICS), IECEx / QAR</b>
Contact:	Francoius du Toit Danie Visser	Juandri de Wet	Tony Mouton	Terine Orsmond Regardt Zeelie
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Fax no:	+27 (0)86 605 8568	--	--	--
E-mail:	<a href="mailto:info@masc-ex.co.za">info@masc-ex.co.za</a>	<a href="mailto:training@masc-ex.co.za">training@masc-ex.co.za</a>	<a href="mailto:tonym@masc-ex.co.za">tonym@masc-ex.co.za</a>	<a href="mailto:orsmond@masc-ex.co.za">orsmond@masc-ex.co.za</a> <a href="mailto:regardt@masc-ex.co.za">regardt@masc-ex.co.za</a>
Address:	45 Jurg Ave, Lelyta Park Unit 5, Hennospark Ext 87, Centurion, Gauteng, 0157, South Africa			

### Website address:

[www.masc-ex.com](http://www.masc-ex.com)

### Background:

MASC was established in October 2008 and in this time obtained accreditation / approval from the Department of Mineral Resources (DMR), Department of Labor (DOL), SANAS (T0444 & C83), as well as International IECEx Accreditation.

MASC is the largest Ex certification and Hazardous Location services company in Southern Africa and is the only International (IECEx) accredited Certification Body (ExCB) and Test Laboratory (ExTL) in Southern Africa. The company covers the widest utilized disciplines in the Ex field with full accreditation.

The personnel of MASC commit to professional conduct and practice, effective and efficient test and assessment results, as well as a high level of quality in all activities.

### Resources:

MASC has:

- Twenty dedicated personnel, covering the activities of the company. MASC is continuously expanding its personnel compliment and expertise effectively doubling the human resources in the company in the last year.
- All personnel go through stringent assessments as well as regular training to ensure quality throughout the business.
- Four buildings for its expansive activities. MASC has grown substantially the last two years to increase its effective business area to more than 1000m<sup>2</sup>.
- Conference & training facilities for up to twenty delegates.
- Specialized test equipment and laboratories / test areas.
- Vehicles for onsite inspection services.



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### Accreditation for Test and Certification services:

Ex Discipline	Standard(s)	SANAS Signatories	IECEx / QAR *
Flameproof (Ex d)	SANS/IEC 60079-0 / 1	6	Part of MASC ICS scope
Increased Safety (Ex e)	SANS/IEC 60079-0 / 7	4	Part of MASC ICS scope
Intrinsic Safety (Ex i and iD)	SANS/IEC 60079-0 / 11	4	Part of MASC ICS scope
Pressurisation (Ex p)	SANS/IEC 60079-0 / 2	3	Part of MASC ICS scope
Encapsulation (Ex m and mD)	SANS/IEC 60079-0 / 18	6	Part of MASC ICS scope
Non-sparking (Ex n, nA, nC, nR, nZ)	SANS/IEC 60079-0 / 15	6	Part of MASC ICS scope
Intrinsically safe loops (Ex i)	SANS/IEC 60079-0 / 25	3	Part of MASC ICS scope
Powder filling (Ex q)	SANS/IEC 60079-0 / 5	2	Part of MASC ICS scope
Zone 0 equipment	SANS/IEC 60079-0 / 26	2	Part of MASC ICS scope
Dust ignition-proof (DIP/ Ex tD)	SANS/IEC 60079-0 / 31	4	Part of MASC ICS scope
Ingress Protection (IP xx)	SANS/IEC 60529	7	Part of MASC ICS scope
Caplamps	SANS/IEC 60079-0 / 35	2	Part of MASC ICS scope
Portable Light Assemblies	SANS 1438	5	RSA Standard
Mechanical Cable Glands	SANS 1213	2	RSA Standard
SANS 1515 Gas Detectors	SANS 1515	3	RSA Standard
Batch Testing of Ex equipment (SANS 96)	SANS 96	8	RSA Standard
Diesel Mining machines use in Hazardous Location in Coal Mines, Testing and inspection	SANS 868-1-1/2/3	3	RSA Standard
Diesel Machines used in Hazardous locations on surface, testing and inspection	SANS 868-3-1/2/3	3	RSA Standard
Diesel Machines used in non-flameproof applications	SANS 868-4	3	RSA Standard
Plugs and Sockets	SANS 1489	2	RSA Standard

\* <https://www.iecex.com/information/excbs/>

### Other services:

- **Ex Training / Hazardous Location training:**

Courses include:

- **Hazardous Locations**

- Hazardous Locations
- Concepts
- Installation, Inspection and Maintenance

- **Intrinsic Safety:**

- Practical Intrinsic Safety Systems (Loops), Installation, Inspection and Maintenance
- Design
- Manufacture and Repair



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## COMPANY PROFILE

- Certification drawings and Submission requirements
- Concepts
- **Flameproof:**
  - Manufacture and Repair
  - Design
  - Certification drawings and Submission requirements
  - Concepts
  - Installation, Inspection and Maintenance
- **Non-Sparking / Dust Ignition Proof / Other techniques or topics as required:**
  - As required
- **Customised courses according to client requirements**
- **MASC Markscheme / Quality System Audits (According to ATEX, ANZEx and IECEx guidelines) IECEx QAR's (according to IECEx rules)**

MASC provides a SANAS accredited and Government approved Markscheme / Quality system Audits (IECEx) catering for over fifty clients countrywide and growing at a rapid pace. The MASC Permit Markscheme / Quality system Audits (IECEx) is operated applying the principals / requirements of ISO 9001; ISO/IEC 80079-34 (manufacturing) and IEC/SANS 60079-19, IECEx OD 314-5 and IECEx OD 315-5 (repairs). The audits are conducted to cover both Quality Management System(s) and Product Certification.

The Permit MarkScheme / Quality System Audits are conducted by auditors with local and international experience and technical competence in the Ex techniques.

### SANAS Accredited Markscheme (Lab Number C83)

In February 2018 MASC achieved SANAS accreditation for the Markscheme as a type 5 scheme according to ISO/IEC 17065.

Ex Discipline	Standard(s)	SANAS Signatories
Flameproof (Ex d)	SANS/IEC 60079-0 / 1	1
Pressurisation (Ex p)	SANS/IEC 60079-0 / 2	1
Powder Filling (Ex q)	SANS/IEC 60079-0 / 5	1
Increased Safety (Ex e)	SANS/IEC 60079-0 / 7	1
Intrinsic Safety (Ex i and iD)	SANS/IEC 60079-0 / 11	1
Non-sparking (Ex n, nA, nC, nR, nZ)	SANS/IEC 60079-0 / 15	1
Encapsulation (Ex m and mD)	SANS/IEC 60079-0 / 18	1
Ex repairs	SANS/IEC 60079-0 / 19	1
Dust ignition-proof (DIP/ Ex tD)	SANS/IEC 60079-0 / 31	1
Portable Light Assemblies	SANS 1438	1
SANS 1515 Gas Detectors	SANS 1515-1 and -2	1
Flameproof underground Diesel Machines	SANS 868-1-1 / -2 / -3	1
Flameproof Plugs and Sockets	SANS 1489-1 and -2	1

Other Scopes	Standard(s)	SANAS Signatories
Industrial Plugs and Sockets	SANS 1239	1
Low-voltage re-winds	SANS 10242-1	1



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## COMPANY PROFILE

Textile reinforced solid woven carcass conveyor belting	SANS 968	1
General Textile reinforces conveyor belting	SANS 1173	1
Steel cord reinforced conveyor belting	SANS 1366	1
Testing of fire retardant properties of Conveyor belting	SANS 971	1

- **Consultation / Product development support**
- **International Certification & Support (IECEX, ATEX, ANZEx)**
- **Area classification / Hazardous Area Classification**
- **Inspections (Mine machines / installations etc.)**
- **Loop approvals / Intrinsic safety system approvals**

MASC welcomes you to contact us with your Ex certification / Hazardous locations requirements in which we will provide you with a competent and widely recognised service in all aspects required for your Hazardous location product / facility.

**MASC always offers a quick turnaround time and competitive price with a much higher value to cost ratio than the competitors.**

Please do not hesitate to contact us with your next project.

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Managing Director  
Mining And Surface Certification (MASC)

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