Et-SIMM

Structural Inspection & Maintenance Management

BACKGROUND INFORMATION

Matt Louw is the managing director and structural audit team leader of Et-SIMM Services. With 15 years of experience in the Civil/Structural Engineering field, he has primarily worked in the mining and heavy industrial industries. In 2018, Matt earned his ECSA registration as a Professional Structural Engineering Technologist and is committed to adhering to the Engineering code of conduct specified by the Engineering Council of South Africa.

TECHNICAL ASSISTANCE AND CONSULTING

Structural Engineering not only limited to theoretical principals, but also including practical implementation and execution. Versatile Engineering solutions based on problem specific requirements. When the problem falls outside of our area of expertise we contact and collaborate with experts in the field.

STRUCTURAL AUDITS

The SIMM Audit is an industry-standard, providing an objective way to evaluate the condition of steel and concrete, as well as health and safety issues.
The grading system allows asset owners to prioritize their spending and focus on high-priority items over time.

REMEDIAL IMPLEMENTATION

We include the client and the maintenance team with remedial methodology planning to incorporate structural requirements whilst adhering to resource availability and practical implementation. We also provide on-site assistance and quality assurance as needed.

GET IN TOUCH WITH US!

(+27) 72 125 2875

Matt@Et-SIMM.com

www.Et-SIMM.com

5 Torrens Rd, Royal Cape,
Cape Town, 7800

STRUCTURAL AUDITS ARE LEGAL REQUIREMENTS AS CONTAINED IN THE OCCUPATIONAL HEALTH AND SAFETY ACT 1993

The main objectives of SIMM audits are to prioritize critical items in need of remedial action to reinstate structural integrity, thus reinstating the original design intent and optimizing structural integrity, extending the lifespan of structures, while also ensuring the safety of personnel and infrastructure.

OUR SERVICES INCLUDE

(BUT NOT LIMITED TO)

- Professional Civil & Structural design for commercial, industrial & mining industries.
- Structural problem solving & root cause analysis.
- On-site Structural Safety Audits (SSA), Structural Inspection & Maintenance Management (SIMM) Audits, general inspections and problem finding.
- Baselining of dynamic support structures utilizing Accelerometers.
- Finite Element Analysis (FEA) of dynamic & Static structures.
- 2D & 3D detailing (AutoCAD & MultiSuite) with material take-off quantities.
- Step by step 3D illustrations of remedial implementation
- 3D photo walkthrough, Point cloud scanning.
- Life Cycle Costing assistance.
- Remedial methodology strategies and quality assurance.
- Rope access and Drone inspection capabilities where needed.
- NDT (non-destructive testing) & steel thickness measuring.
- Technical report writing and insurance investigations.

Current and past clients include EXXARO, Anglo American Group, Debswana, Namdeb, De Beers Group, Tronox Group and various clients in the heavy industrial sector.

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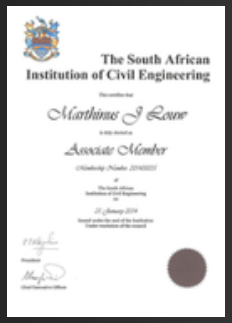

WHY CHOOSE US?

All inspection Engineers and Technicians have valid certificates of medical fitness, police clearance, and valid passports. Structural Inspection and Maintenance Management (SIMM) Audits are a large part of our services, and our Engineers and Technicians are certified by Kurt Waelbers, Anglo American's Lead Asset Integrity Engineer, to safely and correctly conduct SIMM inspections.

Deliverables provide the client with a summary report providing a general health condition of the infrastructure

SPECIALIST SERVICES

Et-SIMM & Euro Technology will still rely on one another of their specialist services and work closely together when and as needed.

SAFETY IS OUR NU.1 PRIORITY

Structural inspections and maintenance play a critical role in ensuring the safety and integrity.

In South Africa, both the **Mine Health and Safety** and **Occupational Health and safety acts** specifies that any owner of a structure shall ensure that inspections are carried out periodically by competent persons to render the structure safe for continued use, thus providing and maintaining a working environment that is safe and without risk to the health of employees.

Inspections are to be carried out at least once every six months for the first two years and thereafter yearly. All records shall be kept and made available to inspectors upon request.

In conclusion, structural inspections and maintenance are crucial for ensuring the safety, integrity, and functionality of buildings and infrastructure. By detecting and addressing potential issues early on, these practices prevent structural failures, protect lives and property, comply with regulations, extend the lifespan of structures, safeguard investments, and maintain public confidence in the safety of our built environment.