

CV of Henri vd Walt



Name & Surname	Henri van der Walt
Professional Title	Senior Consultant and Senior Training Facilitator in Physical Asset Management
Nationality	South African
Date of Birth	28 February 1973
Industry Experience	Since 1996
Qualifications	1996 B. Eng. (Mechanical) University of Pretoria 1999 GCC (Mines & Works) State Dept. of Minerals and Energy 2004 Diploma - Cross-Cultural Coms NTM, UK 2014 B.Th CS, Polokwane

Areas of speciality

Technical exposure that ranges over most of the product/system life cycle – from research and conceptualisation, through design and development, implementation and commissioning, operation, maintenance and decommissioning, to training in the field of Maintenance Engineering and at all levels of Physical Asset Management in industry.

Specific areas of expertise, with a passionate thread of asset management running through them, include:

- Asset management consulting, assessment, and training of employees at all levels of the maintenance function
- Asset utilisation and performance management specifically in the mining industry, and for mobile equipment in general
- Asset care training
- RCA/cause-effect analysis and technical problem solving
- Risk analysis, incident investigation and remedial actions
- People, and specifically maintenance people and team building
- Systems and product development, with a view on maintainability, including FEA
- Maintenance system improvement and identification and implementation of corrective measures
- Project management in the areas of technical investigation, technical problem solving, and product development, with resultant remedial actions or customised solutions

Experience Highlights

- To continuously be involved in the training of Asset Management / Maintenance practitioners at all the levels of organisations
- Implementation of semi-renewing asset intervention on mobile equipment, with accompanying expansion in workshop facility, maintenance system and people.
- Investigation and evaluation for the implementation of an appropriate fire suppression system on critical underground mobile fleet.
- Investigation and recommendation of specific improvements on national fleet care, management system and functional reporting structure, including technical upskilling and diversifying of the technical skills and levels in the existing structure.
- Managing of the mobile assets and the related technical staff and workshops of a major underground mine, including system improvements, budgeting, new equipment acquisitions, and responsibility for SHE and legal compliance.
- Failure and incident investigation, using RCA, cause-effect analysis, external investigative expertise from OEMs and independent investigators.
- RCA procedure development and training of lower-level maintenance people to lay a foundation in basic maintenance strategies and asset management cycling.
- Product development using solid CAD modelling and FEA for design improvement and optimisation.
- Experience in owning and operating of small business (retail distribution in SA, technical consulting in Mozambique)

Career overview

Current	M-Tech Consulting Engineers, Terotechnica Maintenance College Senior Consultant, Senior Facilitator
2017 – 2018	Pragma - Asset Management Engineered Associate Consultant
2017	Eazi Access Asset Management Coordination and Consultation, National Fleet
2015 – 2017	Black Mountain Mine Section Engineer, Legal Appointee
2015	M-Tech Consulting Engineers Maintenance Consultant
2014	York Timbers Maintenance and Process Engineering, Technical Support
2010 - 2013	Gereformeerde Kerk Wondersig Ministering Elder, Theological Studies
2009	Golder Associates Regional Technical Liaison

2003 – 2008	NTM Visão Integral Training and Technical Support
2002	M-Tech Consulting Engineers Maintenance Training
1998 – 2001	De Beers - DebTech Design & Development Engineer (Mechanical)
1997 – 1998	De Beers – Namaqualand Mines Engineer-in-Training
1996	Anglo CTO – Mechanical Engineering Department Engineering Assistant

M-Tech Consulting Engineers, Terotechnica Maintenance College - current

Senior Consultant, Senior Facilitator

- Training Asset Management / Maintenance practitioners from floor to management level – inhouse & public courses
- Presenter for E-courses
- Consultation services to industrial clients regarding physical maintenance systems
- Internal business process improvements
- Technical participation in marketing of services and trainings to existing and new clients
- Investigating tertiary training possibilities in the Maintenance Engineering and Asset Management field
- Investigation into further local and international accreditation possibilities

Pragma Africa, 2017 - 2018

Associate Consultant

- Asset Care and Reliability Engineering roles at major coal processing client.
- Preparation with client for internal asset care audit
- Consultation related to asset management procedures and processes

Eazi Access, 2017

Asset Management Contract

- Mobile fleet of MEWPs and Telehandlers
- Implementation of maintenance improvement strategies
- Monitoring national asset deployment, availabilities and utilisation
- Assessment of CMMS as part of ERP upgrade

Black Mountain Mine, 2015 - 2017

Section Engineer

- Management of mobile assets and their maintenance at the two shafts of Black Mountain Mine
- Legal compliance of TMM section, including all mobile equipment and related workshops, 2.13.3.1 appointment

- Mobile fleet management – underground and surface mobile mining machines, LDVs, busses
- Assurance of quality maintenance through 4 TMM workshops under direct management
- Implementation, execution and management of identified maintenance actions, improvements and cost saving initiatives through permanent and contractor staff of 138 people in 4 workshop areas
- Management of the TMM opex and capex budgets.
- The updating of the TMM baseline risk assessment, COP and related legal documentation according to the newly issued Regulation 8 requirements and the new September 2015 COP guideline
- Acquisition of additional long-hole equipment, emulsion rigs and some other mining equipment, in conjunction with the appointed Long-hole Mining Engineer

M-Tech Consulting Engineers, 2015

Maintenance Consulting Contract

- Development of maintenance procedures and technical resourcing and structure

York Timbers, 2014

Maintenance and Process Engineering

- Work towards establishing a group integrated maintenance system
- Conduct root-cause analysis and facilitate related maintenance evaluations at mills (rolling element equipment, boiler feed water pump, chipper failures, finger joint operation, bottleneck at steam dryer)
- Technical assistance with projects and capex budget preparations
- Improvements at the central mobile equipment workshop

Gereformeerde Kerk Wondersig, 2010 - 2013

Ministering Elder, B.Th. Studies

- Member of the council
- Teaching and facilitation of training programs and study groups
- Counseling of people
- Part-time studies

Golder Associates, Mozambique, 2009

Regional Technical Liaison

- Maintain and expand contact with mining clients, and assist in project communication
- Investigation into establishment of a field office
- Manage company guest facilities and site vehicles

Visão Integral, Mozambique, 2004 - 2008

Technical Field Support

- Support raising, preparatory language study, partnership development
- Field orientation, repairing and equipping accommodation for workers
- Technical support on base and rural works, assisted in small scale local community upliftment projects
- Presentations in English and Portuguese

M-Tech Consulting Engineers, 2002

Maintenance Instructor and Consulting

- Trained and advised maintenance practitioners from different companies at various locations in SA

- Part of maintenance consulting team in mining

Anglo/De Beers – DebTech, 1998 - 2001

Mechanical Design & Development Engineer

- Systems Engineering with focus on design for maintainability in system acquisition projects (maintenance and logistical support for the systems being developed)
- Work as project engineer and design engineer on various research, development and acquisition projects which had as output knowledge and products for the diamond mining industry
- Use Pro/Eng 3D-CAD software with a view on further integration with the related Finite Element Analyses software in our mechanical designs; worked in design office with mechanical designers
- Exposure to new technology and product specific research (working alongside other disciplines such as physics, chemistry), product development and commercialisation, manufacturing and product support
- Projects included: infrared imaging and sorting; combining dual x-ray sorting products; protective capsule design; low-cost advanced recovery application; x-ray diffraction sorting; shipping of equipment to remote international clients

Anglo/De Beers – Namaqualand Mines, 1997 - 1998

Engineer-in-Training

- Worked with artisans and operators in maintenance and production sections.
- Acting Plant Section Engineer, Earthmoving Maintenance Foreman, Building Maintenance Foreman, Earthmoving Maintenance Planner and Light Vehicle Maintenance Chargehand.
- Projects and investigations: estimate culvert size and quantity for a bridge, estimate compressed air consumption at bedrock operations to determine required compressor capacity, determine the feasibility of oil reclamation on hydraulic systems, compare running costs of haul trucks to decide which one to decommission, plan re-routing of power and water supply lines around ore body, reduction of excessive noise in air extraction system

Anglo/De Beers – CTO Mechanical Engineering, 1996

Engineering Assistant

- Analysed the loading on belt conveyor pulleys and derived mathematical equations for the estimation of the resulting stresses in the end discs of the pulley.
- Computer modelling and Finite Element Analysis of various drum and end disc configurations of conveyor pulleys.

Professional profile

Engineering Council of South Africa, 2000 - 2008

Professional Engineer

Presentations and papers

Root-cause Analysis in Practice

Maintenance Forum, Mount Amanzi, 2014

Career-enhancing courses

2014	Asset Management for Engineers	M-Tech practical asset management and maintenance principles
2002	Vision of a Leader	Evaluation and validation of leadership vision and how to tackle it
2001	Reliability-Centred Maintenance	M-Tech course in RCM for maintenance engineers
2001	Systems Engineering	Course with software presented in-house at De Beers by international systems engineering experts
2001	Overhead Crane Operation	Certificate of Competence
2000	Mechanical Handling Systems	TUNRA course at the CSIR in Pta.
2000	Quality Function Deployment workshop	Using QFD to accurately capture customer needs to plan for correct project outcomes
2000	Practical Mathematical Optimisation for Engineers	A systematic approach to optimising engineering problems using mathematical algorithms.
1999	Systems Engineering	Training by industry expert Phillip Rust, in-house at De Beers
1999	Project Management and System Acquisition	Training by industry expert Ad Sparrius, in-house at De Beers
1999	Design to Manufacture	Application of Pro/Engineer (currently Creo) CAD software to support the development process
1999	Festo Basic Pneumatics	Pneumatic system design and components by Festo
1999	Pro/Engineer Version 20	Update training for Pro/E (currently Creo) CAD software
1998	Project Management Program	Project Management by Executive Education
1998	Concrete Technology	Level3 Concrete Technology certification
1998	Pro/Mechanica Structure	Finite element analysis with Pro/E related software.
1998	Pro/Engineer Advanced Part and Assembly Design	Second level course on modelling and assembly in Pro/E design software
1998	Oil Analysis and Contamination Control	Tribology, Oil contamination
1997	HT Electricity	Escom: HT lines, cables, transformers, protection.
1997	Bearing Maintenance and Fitting Procedures	Timken
1997	Fundamentals of Earthmoving and Earthmoving Machines	Caterpillar: Diesel engines, torque converters, transmissions, undercarriage, tyres, ground engaging tools.
1997	Hydraulic Excavators	Caterpillar course: Functioning and maintenance
1997	Productive Maintenance for Foremen	Maintenance function, reliability-centred maintenance, discussion of maintenance problems
1997	Conveyor Belt Repairs	Rema Tip-Top: Belt construction and care.
1997	Pumps and Pumping Systems	Warman course: Impellers, casings and pump performance.
1997	Steel Wire Ropes	Haggie Rand: Rope types and compositions, applications, calculations.
1997	Welding Technology	South African Institute of Welding: Joint preps, welding processes, flux, residual stresses.
1997	Focus for Line Managers	Managing change, work levels, cross-departmental co-operation.

1997	Instrumentation, Basic Hydraulics, PLC, Electronics	De Beers Technician Training Centre , Kimberley
1997	Wear Resistive Linings	Multotech course: Lining types and applications.

Languages

Proficiency	Read	Write	Speak
Afrikaans	Excellent	Excellent	Excellent
English	Excellent	Excellent	Excellent
Portuguese	Good	Fair	Fair
Dutch	Good	Poor	Poor