



**THE MAINTENANCE
INSTITUTE AFRICA**



Corporate Profile

<https://tmiafrica.org>



OUR VISION

To be the leading institute driving world-class maintenance and reliability excellence in Africa, fostering a culture of continuous improvement, innovation, and sustainability in asset management.

OUR MISSION

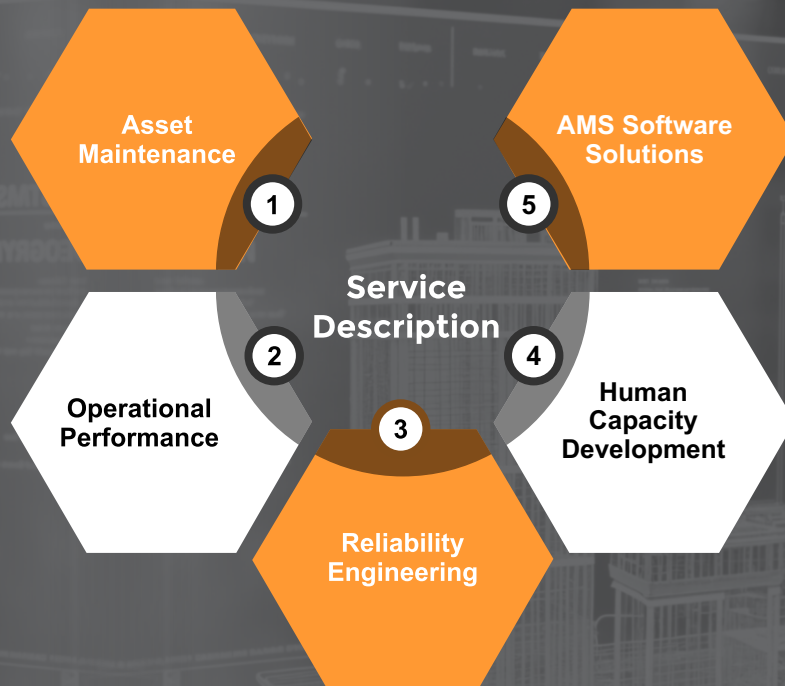
1. Empowering Professionals – Provide cutting-edge training, certification, and capacity-building programs to enhance the skills of maintenance and reliability professionals.
2. Promoting Best Practices – Advocate for global maintenance and reliability standards tailored to Africa's unique industrial and infrastructural needs.
3. Facilitating Knowledge Sharing – Organize conferences, workshops, and forums for industry leaders, professionals, and academia to exchange ideas and insights.
4. Driving Digital Transformation – Support the adoption of AI, predictive maintenance, and digital tools to optimize asset performance and minimize downtime.
5. Industry Collaboration – Partner with organizations, governments, and educational institutions to improve asset management, safety, and reliability across various sectors.

SOME OF OUR CLIENTS



Our Suite of Solutions

We provide advisory and consulting, assessment and analysis, training and improvement programs in the following areas:



SOLUTION SPOTLIGHT

Asset management software solutions

- Computerized Maintenance Management System (CMMS) Solution
- CMMS Deployment (Mobile, cloud, QR, Barcode etc)
- Physical Asset Verification
- Equipment Tagging (Laser Technology)
- Maintenance Strategy Development
- Maintenance Plan Development and Deployment
- Training
- OEM Support



Highlights:

We provide specialized, customized courses in all fields that meets your human capacity development needs

Our Commitment:

- » World Class Delivery
- » Life Time Learning
- » Verifiable Bottom Line Results



Limble



UpKeep

MAXIMO



e-learning

Platform & Services

- ✓ Maintenance, Reliability
- ✓ Asset Performance management and
- ✓ Operational Excellence Courses on the go

For Organizations

- » Save cost on Face to Face Training
- » Train larger number of your staff
- » Get content customized just for you
- » Track staff performance and return on investment
- » Upgrade staff skills without losing tool time
- » 100% Mobile friendly - Train on the go
- » Custom LMS just for you or Get a custom licence on our platform

For Individuals

- » Cheaper learning cost
- » Upgrade your skills on the go at your pace and at your time
- » 100% Mobile friendly
- » Learning for experienced
- » Access to most recent knowledge updated content

VIRTUAL REALITY TRAINING



Step Beyond: Reality is only the Beginning

"Immersive VR Technical Training — Learn Safely, Retain Confidently, Perform Flawlessly"

Core Value Statements (Three Pillars)

- **Risk-Free & Realistic**
"Master complex machinery and safety protocols in virtual space—no real-world consequences."
- **Accelerated Skill Retention**
"Hands-on VR learning boosts engagement, confidence, and speeds up competency."
- **Scalable, Data-Driven Results**
"Deploy once, train thousands: real-time analytics, consistent quality, measurable ROI."

Key Use-Case Badges

- Industrial & Manufacturing Training
- Aviation & Aerospace Simulations
- Safety & Emergency Response
- Onboarding & Soft-Skills Roleplay

Step Into Virtual Skill Mastery, Unlock Risk-Free Training Experiences

COURSE CATALOGUE

MAINTENANCE ENGINEERING COURSES

1. Understanding Failures Causes
2. Root Cause Analysis
3. Proactive Maintenance
4. Predictive Maintenance
5. Work Management Principles
6. Fundamentals of Maintenance Reliability
7. Zero breakdown Maintenance
8. Rotating Equipment Maintenance (Machinery Health Management)
9. Fundamentals of Machine Vibration
10. Reliability-Centered Maintenance: Analysis to Implementation.
11. Total Productive Maintenance: Running a Successful TPM Program
12. Preventive Maintenance Strategy Program Development
13. Plant & Equipment Maintenance Overview
14. Precision Maintenance and Machinery Health Concept.
15. How to Develop and Establish a Condition Based Predictive Maintenance Program
16. Maintenance Work Processes and Procedures.
17. Maintenance Planning and Scheduling
18. Maintenance Management Mastery
19. Maintenance History Analysis: Uncover the Goldmine in Your Maintenance Work Order System Records.
20. Effective Maintenance Crew, People Management Skills & Maintenance Team Motivation.
21. Effective Maintenance Planning & Maintenance Scheduling System, Processes & Practices.
22. Introduction to Maintenance Management
23. Reliability Centered Maintenance
24. Failure Modes and Effects Analysis
25. Shutdown and Turnaround Maintenance Management
26. Computerized Maintenance Management System (SAP, Limble, Upkeep, Fiix) Basics & Principles
27. Maintenance Management Basics

CERTIFICATION COURSES

1. Maintenance and Reliability Best Practices Master class plus CMRP Exam Preparation.
2. Certified Reliability Leader & CRL Certification
3. Machine Lubrication Analyst I (MLA1) - ICML
4. Machine Lubrication Analyst II (MLAII) - ICML
5. Asset Reliability Practitioner – Advocate (ARP-A)
6. Asset Reliability Practitioner – Engineer (ARP -E)
7. Asset Reliability Practitioner – Leader (ARP-L)
8. Infrared Thermography Level I Certification

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9. Maintenance & Reliability Transformation (MRT)
 10. Asset Advantage Certification – Individual
 11. Asset Advantage Certification – Organization
 12. CompEx Certification
 13. API RP 2D Qualified Crane Inspector Training
 14. Crane Operator Training and Certification
 15. Certified Reliability Growth Professional I
 16. Certified Reliability Growth Professional II
 17. CAT I, II, III Vibration Analyst and Technician Training.

RELIABILITY ENGINEERING IMPROVEMENT COURSES

1. Reliability Centered Maintenance – Bedrock for Effective Reliability Focused Strategies
2. Reliability and Asset Performance Management
3. Reliability models and analysis
4. Reliability, Availability, Maintainability and Safety Modelling (RAMS)
5. Condition Monitoring Optimization, Tools & Models for Ideal Predictive Maintenance Inspections.
6. Equipment Reliability Improvement
7. Equipment Replacement Decision Modelling: Making Optimal End of Life Refurbish and Replace Choices.
8. Failure Modes, Effects and Criticality Analysis with Case Studies.
9. Optimal Equipment Overhaul: Model to Make Continue Repairing or Do an Overhaul Decision.
10. Reliability Growth Analysis: Tracking Reliability Trends.
11. Weibull Analysis: Weibull Failure Probability Distribution Plot Modelling.
12. Maintenance Management Best Practices: Systems & Tools

TECHNICAL CYBERSECURITY

1. Ethical Hacking – Training Course & Certification
2. Certified Cyber Threat Analyst (CCTA)

LEADERSHIP AND CULTURAL ALIGNMENT COURSES

1. Change Management for Reliability Leaders
2. Leading Maintenance and Reliability Teams / Organization
3. Delivering Seamless Reliability Results (Reliability Projects)
4. Achieving Cost Management Goals
5. Creating and Implementing a Professional Development Plan for your Team
6. The Business of Maintenance and Reliability
7. Leading in Reliability: Business Process Re – Engineering

MACHINERY HEALTH COURSES

1. Rotating Equipment Management (Pumps, Compressors and Engines)
2. Diesel Engine Cycles, Maintenance and Control.
3. Internal Combustion Engine Basics
4. Centrifugal Pump Maintenance & Pumping System Design
5. Machinery Shaft Alignment

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6. Precision Maintenance & Machinery Health Concept
 7. Fundamentals of Machinery Vibration
 8. Infrared Thermography
 9. Machine Lubrication Management Program
 10. Oil Analysis Training (Theory & Practice)
 11. Setting Up Your Lubrication Program
 12. Basics of Hydraulics
 13. Practical Pumps & Compressors: Control, Operation, Maintenance and Troubleshooting.
 14. Pumps, Turbines and Compressors: Installation, Operation, Troubleshooting and Maintenance.
 15. Pumps & Valve Selection, Installation, Operation and Maintenance.
 16. Engineering Facilities Management Programme.
 17. Bentley Nevada Vibration System Training

ENTERPRISE ASSET MANAGEMENT COURSES

1. Business Process Design, Tools to Build or Re-Engineer processes
2. How to build a successful EAM System and Process
3. Equipment Risk Assessment & Equipment Criticality
4. How to write an SOP using the ACE 3T Mistake Proof Methodology.
5. Using the Plant Wellness Way to get Operational Excellence
6. Enterprise Asset Management Excellence, Successful EAM System Design.

LEAN, QUALITY MANAGEMENT AND PROJECT MANAGEMENT COURSES

1. Lean & Waste Reduction
2. Value Stream Mapping
3. Lean 5S Process
4. Introduction to Lean Six Sigma
5. Operational Excellence & Plant Wellness
6. Total Productive Maintenance
7. Project Risk Management Training
8. Fundamentals of Project Management in Oil & Gas
9. Procurement & Contract Management
10. Project Management Professional Training
11. Best Practices in Capital Project Management
12. SAP Fundamentals
13. CMMS Work Order Management.
14. Cost Engineering: Effective Estimation & Cost Control of Technical Projects.
15. Basic Principles of Autonomous Maintenance and Continuous Improvement.
16. Total Productive Maintenance & 5 S Process
17. Excellence in Contract Administration and Project Management.
18. Purchasing, Warehousing, Inventory, Logistics and Supply Chain

ARTIFICIAL INTELLIGENCE

1. ISO/IEC 42001 Artificial Intelligence Management System

ELECTRICAL AND INSTRUMENTATIONS

1. Preventive Maintenance of HVAC, Electrical Systems and Maintenance
2. Earthing, Bonding, Lightning and Surge Protection: Design, Installation and Maintenance
3. Practical Boiler Control and Instrumentation
4. Electrical Design, Installation, Troubleshooting and Maintenance for Industrial and Commercial Facilities.
5. AC Electrical Motors & Drives: Troubleshooting, Maintenance & Protection.
6. Installing, Programming & Commissioning of Power System Protection Relays, Hardware, Switch Gears & Distribution Systems.
7. Industrial Motor Controls: Operation, Troubleshooting & Maintenance.
8. Diesel Generators: Operations, Maintenance, Control, Testing and Troubleshooting.
9. Circuit Breakers & Switch Gears Inspection, Maintenance, Design, Repair and Troubleshooting Training.
10. Understanding Electrical Equipment's.
11. Lightning, Surge Protection and Bonding
12. Safe Operations and Maintenance of Circuit Breakers and Switch Gears.
13. Industrial Fire Risk Assessment, Safety and Emergency Planning.
14. Power Transformers: Operation, Maintenance and Testing.
15. Circuit Breakers & Switch Gears: Safe Operations and Maintenance.
16. Electrical Equipment Troubleshooting and Maintenance
17. SCADA
18. Powerflex 700 Series Training

SPECIALIZED PROGRAM – THEORY, OJT, E-LEARNING HANDS-ON

1. Welders Training (Basic and Advanced)
2. CAT Specialist Program
3. SCADA Specialist Program
4. Reliability Transformation
5. Asset Advantage
6. Predictive Maintenance Specialist Program
7. Lubrication Excellence Specialist Program
8. Machine and Tools Training – Lathe Machine, Drilling Machine, Hydraulic Presses

HEALTH AND SAFETY

1. Basic and Advanced First Aid and CPR Training
2. Designated First Aider Training
3. Basic Fire Fighting Training
4. Advanced Fire Fighting Training
5. Advanced Fire Systems Management Training
6. Emergency Response Training

INFORMATION SECURITY

1. ISO/IEC 27001 Information Security Management System
2. ISO/IEC 27002 Information Security Controls
3. PECB Chief Information Security Officer (CISO)
4. EBIOS – Training, Course & Certification
5. ISO/IEC 27005 Information Security Risk Management
6. ISO/IEC 27035 Information Security Incident Management



CYBERSECURITY MANAGEMENT

1. Cybersecurity Management – Training Courses & Certification
2. Cloud Security – Training Courses & Certification
3. Penetration Testing Professional
4. SCADA Security Manager
5. Computer Forensics
6. ISO/IEC 27033 Network Security
7. Cybersecurity Maturity Model Certification (CMMC)
8. SOC 2
9. NIS 2 Directive

CONTINUITY, RESILIENCE AND RECOVERY

1. ISO 22301 Business Continuity Management System
2. Disaster Recovery
3. Digital Operation Resilience Act (DORA)
4. Operational Resilience Management
5. Crisis Management

PRIVACY AND DATA PROTECTION

1. ISO/IEC 27701 Privacy Information Management System
2. General Data Protection Regulation (GDPR) – Training Courses

HEALTH AND SAFETY

1. ISO 45001 Occupational Health and Safety Management System
2. ISO 22000 Food Safety Management System
3. ISO 18788 Security Operations Management System

DIGITAL TRANSFORMATION

1. Digital Transformation

GOVERNANCE, RISK AND COMPLIANCE

1. ISO 31000 Risk Management
2. ISO 37001 Anti-Bribery Management System
3. ISO 37301 Compliance Management System
4. ISO/IEC 38500 IT Governance
5. Operational Risk Management In Financial Institute
6. Management System Interior Auditor
7. ISO 37000 Corporate Governance

SUSTAINABILITY

1. ISO 50001 Energy Management System
2. ISO 14001 Environmental Management System
3. ISO 37101 Management System For Sustainable Development In Communities
4. ISO 26000 Social Responsibility
5. ISO 20400 Guidelines For Sustainable Procurement



QUALITY MANAGEMENT

1. ISO 9001 Quality and Management System
2. ISO 21502 Project Management
3. ISO 13485 Medical Devices Quality Management System
4. ISO/IEC 17025 Laboratory Management System
5. ISO/IEC 20000 IT Service Management System
6. Six Sigma
7. ISO 21001 Educational Organization Management System
8. ISO 55001 Asset Management System
9. ISO 28000 Supply Chain Management System
10. Root Cause Analysis

ASSET MANAGEMENT TRAINING

1. Facilities Management
2. Certificate Course in Creating Maintenance Excellence
3. Risk Based Strategies for Inspection & Maintenance (RBI & RBM)
4. Certificate Course in Advanced Maintenance Management
5. Maintenance Planning & Work Control in the Oil & Gas
6. Understanding and Preventing Process Equipment Failures
7. Infrastructure Asset Management & ISO 55000 Series
8. Writing Effective Operating and Maintenance Procedures
9. Maintenance & Reliability Best Practices
10. Certificate Course in Maintenance Planning
11. Advanced Data Analysis Techniques
12. Implementing Effective Preventive & Predictive Maintenance Programmes
13. Advanced Risk, Reliability & Safety Management Techniques
14. Asset Management
15. Effective Contractor Management in Maintenance & Technical Projects
16. Problem-solving & Decision-Making Skills for Engineers and Technical Professionals
17. Plant Inspection Training
18. Couplings & Shaft Alignment
19. Maintenance Audit and Site Inspection
20. API 653: Tank Inspection, Repair, Alteration and Reconstruction (API Exam Preparation Training)
21. Process Plant Optimization & Energy Conservation
22. Operation, Diagnostics and Maintenance of Equipment for Oil & Gas Production
23. Preventive Maintenance of Facilities
24. Root Cause Failure Analysis
25. Cathodic Protection for Port Infrastructure
26. Managing Efficient Shutdowns and Turnarounds
27. Modern Maintenance Technologies
28. Security Management, Planning and Asset Protection with Integrated Security Solutions
29. Diesel Engine
30. Data Analysis Techniques
31. Failure Mode Effect and Criticality Analysis (FMECA) Facilitator Skills Training
32. Corrosion Control in Oil & Gas Exploration Industry
33. Material Selection in Oil and Gas Upstream
34. Centrifugal Compressor & Steam Turbine
35. Reducing Costs through Spares Optimization and Rationalization
36. Innovative Root Cause Analysis
37. Introduction to Offshore Decommissioning
38. Commissioning & Start-Up with API RP IFSC Foundation

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39. Planned Shutdown, Critical Activities, Isolation, Start-up & Commissioning
 40. Optimizing Equipment Maintenance & Replacement Decisions
 41. Machinery Failure, Vibration & Predictive Maintenance
 42. Maintenance Strategy Development and Cost-Effective Implementation
 43. Pumps, Compressors & Turbines
 44. Safety in Process Equipment Design & Operation
 45. Maintenance Contracting & Outsourcing
 46. Fluid Flow and Heat Transfer in Industrial Applications
 47. Root Cause Analysis (RCA) Facilitator Training
 48. Maintenance Errors
 49. Economic & Technical Evaluations in Engineering & Maintenance Projects
 50. Risk Based Maintenance Workshop
 51. Valves & Actuators Technology
 52. Risk-Based Inspection (RBI) Planning of Offshore and Marine Facilities
 53. ISO 50001: Energy Management Systems
 54. Maintenance of Gas Compressors
 55. Refinery Critical Equipment Operation for Compressors, Turbines and Pumps
 56. Fundamentals of Offshore Pipeline Engineering
 57. Failure Modes, Effect, And Criticality Analysis
 58. Advanced Preventive And Predictive Maintenance
 59. Leadership Skills In Mining
 60. Condition Monitoring Of Machinery
 61. RAMS – Reliability, Availability, Maintainability And Safety
 62. Pump And Compressor: Operations And Maintenance
 63. Advanced Electrical Maintenance And Troubleshooting
 64. Risk-Based Inspection
 65. Power Station Design & Maintenance
 66. Advanced Maintenance Planning And Scheduling
 67. RCM Blitz
 68. Computerized Maintenance Management System (CMMS)
 69. Advanced Maintenance Dashboard And KPI
 70. Advanced Power Systems
 71. World-Class Reliability Centered Maintenance Management
 72. Advanced Maintenance Planning & Cost Management
 73. Engineering, Procurement & Construction (EPC) Contracts
 74. Advanced Machinery Failure Analysis And Prevention
 75. Risk-Based Asset Management
 76. Reliability Centered Maintenance Excellence
 77. Essentials Maintenance Planning & Scheduling
 78. Advanced Rotating Equipment Maintenance And Reliability
 79. Advanced Instrumentation & Process Control
 80. Achieving Maintenance Reliability From Data
 81. Advanced Pumps Reliability & Efficiency
 82. Procurement Negotiations And Supplier Relationship Management
 83. Advanced Boiler Operation And Maintenance
 84. Advanced Maintenance Leadership In Reliability Centered Maintenance (RCM)
 85. Process Plant Optimization And Energy Conservation
 86. Prescriptive Maintenance
 87. MRO Spare Parts Optimization And Inventory Cost Reduction
 88. Plant & Asset Reliability Optimization
 89. Dynamic Reliability Centered Maintenance
 90. Advanced Total Productive Maintenance
 91. World-Class Overhead Line Design
 92. Advanced Root Cause Analysis And Effective Process Improvement
 93. Shutdown And Turnaround Management



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