

Digital Transformation in Maintenance and Asset Management

Applying advanced maintenance strategies through digital technologies, data analytics, and connected systems. Enhancing asset reliability, operational integrity, and value creation in a smart, impact driven maintenance environment.

16th - 17th
July 2026

V E N U E

Johannesburg,
South Africa

COURSE FACILITATOR:

**Andre
Coetzee**

Founder - Radiant Operations
International



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Course Overview

Today's process and manufacturing industries are complex and asset intensive, requiring maintenance practices that ensure high reliability, maximize uptime, minimize costs, and maintain process safety and asset integrity. Effective maintenance requires understanding current practices, identifying development areas, execution capabilities, and realistic implementation plans. Skills to leverage modern technologies, such as sensors with the Industrial Internet of Things (IIoT), are critical. Applying asset management in this manner supports sustainable operation, and this masterclass provides the skills to achieve this.

The course emphasizes interaction and cooperation between engineering, operations, and maintenance to achieve optimum plant reliability. Practical examples of significant failures illustrate the consequences of misunderstanding roles, responsibilities, and interfaces between these functions.

Key Learning Outcomes

Delegates will:

- Understand operational asset efficiency, associated risks, and ways to increase availability, achieve production targets, and reduce costs
- Learn fundamentals of Reactive Maintenance, Preventive Maintenance (PM), Predictive Maintenance (PdM), and Impact Driven Asset Management (IDAM)
- Understand the Digital Twin concept and its benefits
- Identify key aspects of equipment level reliability to optimize in service time, cost, and asset utilization
- Benefit from artificial intelligence, machine learning, and IIoT
- Apply reliability based maintenance concepts to current strategies, avoid common pitfalls, and realize short and long term gains, increasing asset uptime

Why You Should Attend?

Proper plant maintenance reduces operating costs and boosts productivity. While often seen as an expense, maintenance is an essential profit centre. Many businesses remain in reactive maintenance cycles, leading to compromised operational integrity, breakdowns, ineffective reliability programs, knowledge gaps in handling equipment deficiencies, and challenges in maintaining plants under budget constraints.

This masterclass provides insights into plant reliability, maintenance strategies, and current execution practices. Companies operating stably can exploit opportunities such as economical asset life extension, workforce skill utilization, and enhanced risk management. This comprehensive two-day masterclass surveys reliability issues, solutions, and tools for better maintenance decisions.

Course Facilitator

Andre Coetzee

Founder - Radiant Operations International



Mr. Andre possess +20 years of hands on experience as a consultant & trainer Andre has served some of the top organizations in Asia, Africa & Middle East region, in the field of Asset Management, Maintenance & Shutdowns/ Turnaround.

Andre holds the bachelor's degree (Electrical Engineering) & MBA from the Northwest University, South Africa.

In 1980, he started his working career as an electrical engineer at ISCOR Limited an integrated steel manufacturing enterprise, where he left as Manager for Planning & Development with in Maintenance Department; he had also managed various shutdowns, as well as medium and large capital projects.

Working in such a large company provides one with exposure to various processes and technologies unavailable to smaller companies. As a result, he gained invaluable experience in the fields of project and maintenance management while simultaneously broadening his understanding of the health, safety, and environment (HSE) discipline.

In 1998, he started Radiant Operations International (Pty) Ltd. Radiant operates in the field of asset management. Where he developed an approach called Impact Driven Asset Management (IDAM) that has been successfully applied to a range of business sectors, including steel making, mining, cement industry, water treatment, and services facilities.

Andre has served across Botswana, India, New Zealand, Qatar, Rwanda, South Africa, and Zambia.

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Day 1

Foundation for Maintenance Excellence

Session 1: Asset Management: An overview

- Sustainability principles,
- Impact of Incidents, and
- Operational Integrity Management.

Session 2: Asset Management and the Generation of Wealth

- Wealth Producing Enterprise,
- Plant performance and machine lifecycles,
- Organizational aspects of Reliability,
- Estimating and budgeting,
- Concept of Value in Asset Management, and
- Exercise: Contribution of maintenance to the Value Chain.

Session 3: Operational Integrity and Asset Management

- Fundamentals of Risk and Probability,
- The Starting Blocks of Reliability Engineering,
- Mastered the Act of Precision Maintenance, and
- Principles in the management of data.

Session 4: Changing the Status Quo

- Failure Mode and Effects Analysis (FMEA),
- Reliability Centered Maintenance (RCM), and
- Exercise: Practical application of failure mode and affects analysis.

Session 5: Maintenance Strategies

- Run to Failure Maintenance (RTF),
- Corrective Maintenance (CM),
- Preventive Maintenance (PM),
- Predictive Maintenance (PdM),
- Prescriptive Maintenance (RxM), and
- Elimination - Improvement projects

Session 6: Predictive Maintenance and Machine Condition

- Equipment Failures and the P-F Curve,
- Application of condition monitoring, and
- Exercise: Asset condition assessment.

Day 2

Asset Care - Ensuring Sustainable Reliability

Session 1: Computer Supported Enterprise Asset Management

- Leveraging the computerized maintenance management system (CMMS)
- Artificial Intelligence and Machine Learning,
- Industrial internet of things (IIoT),
- Concept of the digital twin and SMART Maintenance, and
- Role of Machine Learning in Predictive Maintenance.

Session 2: Impact Driven Asset Management® (IDAM)

- Operations in a Complex Environment and the Sea of Detail,
- Impact Driven Asset Management® Model,
- Machine Map (Line of Sight),
- Stages on the Drive to Peak, and
- Reaping the benefits of Impact Driven Asset Management®.

Session 3: Problem Solving: A Maintenance and Reliability Perspective

- Problem solving as maintenance planning and scheduling perspective:
- Principles of problem solving and root cause analysis techniques,
- Wicket problems and how to expose and address them, and
- Exercise: Root cause analysis case study.

Session 4: Asset Management Improvement Practices

- Project scoping
- Project execution and coordination
- Exercise: Scheduling (using a network diagram and a Gantt chart
- Pitfalls in reliability improvement

Session 5: Group Discussion: Utilising the Knowledge Gained

- The Next Step: What is yours?

Programme Schedule

08:30 am – 09:00 am	Registration & Coffee Break
09:00 am – 11:00 am	Course
11:00 am – 11:30 am	Networking & Coffee Break
11:30 am – 01:00 pm	Course
01:00 pm – 02:00 pm	Networking & Luncheon
02:00 pm – 03:00 pm	Course
03:00 pm – 03:30 pm	Networking Break
03:30 pm – 05:00 pm	Course

Who Should Attend?

Directors, VPs, General Managers, Managers, Superintendents, Supervisors, Team Leaders, Engineers, and Project Leaders, including departments:

- Maintenance & Asset Management
- Digital Transformation & Smart Manufacturing
- Engineering & Technical Services
- Reliability Engineering & Condition Monitoring
- Operations & Production
- Continuous Improvement & Operational Excellence
- CMMS / EAM, Data Analytics & Automation

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South Africa

Registration Form

Please fill & sign below form & send us on
training@corsol.net

Delegate 1

Name : _____
Job title: _____
Email: _____
Mobile: _____

Delegate 2

Name : _____
Job title: _____
Email: _____
Mobile: _____

Delegate 3

Name : _____
Job title: _____
Email: _____
Mobile: _____

Delegate 4

Name : _____
Job title: _____
Email: _____
Mobile: _____

Delegate 5

Name : _____
Job title: _____
Email: _____
Mobile: _____

Note: In case of 6 or more nominations make a duplicate of this form & fill in the details.

ORGANIZATION DETAILS:

Company : _____
Address: (to be used on invoice): _____

Telephone: _____
Country: _____

AUTHORIZED BY:

Signature: _____
Name: _____
JobTitle: _____
Email: _____
Date: _____

PAYMENT DETAILS:

Credit Card Holder's Details - To send Payment Link

First Name: _____
Last Name: _____
Email: _____
Country: _____

Event Code: **CS-DTMAM-005**

Course Fee

Registration Fees:

- | | |
|-------------------------|------------------------|
| • Book 1 delegate | Pay USD 2,795/delegate |
| • Book 2 or 4 delegates | Pay USD 2,595/delegate |
| • Book 5 or more | Pay USD 2,395/delegate |

(All pricing excludes all taxes)

Payment Mode:

- Payments will be made by **Credit Card** or by **Bank transfer**, an Invoice will be sent soon after we receive the signed & filled registration form.
- Payment is required within **5 working days** after the receipt of the invoice.
- Payment must be received in full prior to the Course Origination.

Terms & Conditions:

- 1) Fee Includes (For Face 2 Face Training): the course fee covers all course material, lunch & refreshments. Please note that hotel accommodation is not included in the course fee.
- 2) Fee Includes (For Virtual Training): the course fee covers the live course session & the course material soft copies along with Certificates of Attendance.
- 3) Payment terms: Payments are required within 5 working days from the date of receipt of an invoice; all payments should be transferred by Credit Card/bank transfer to the Corsol International account. A receipt will be issued as payment is received.
- 4) Cancellation /Substitution Policy: Cancellation is only acceptable if submitted to us by email & will be subject to charges, cancellation received 60 days prior to the event 25% of the training fee will be charged, 30 Days prior to the event 50% of the training fee will be charged, 15 days prior to the event 75% of the training fee will be charged, 7 days prior to the event 100 % of the training fee will be charged. Substitution is the best option to avoid cancellation, as the cancellation is required in writing via email likewise Substitution is also required by email with complete details of the substituted delegates (Name, Position, Email & Mobile).
- 5) In the case of No Show, clients cannot claim any refund, & are not entitled to claim the Credit Voucher.
- 6) Cancellation by a paid client; does not subject to any cancellation charges, Corsol International will either accept the substitution or will provide a Credit Voucher of the Invoice amount which can be utilized in any of our future training, with validity up to 6 months.
- 7) Every possible effort is made to incorporate the event as it campaigns, however, due to any unforeseen circumstances Corsol International reserves the right to change the venue, location, and trainer. Also due to unforeseen circumstances, the event may be canceled or postponed, in this case, the paid delegate(s) Corsol International will process & refund the full amount, less the bank/service charges up to 5 % or less.
- 8) While all topics shown in this brochure will be covered in the course, the facilitator/instructor reserves the right to restructure and delivers them in a different order or sequence.
- 6) The client is considered aware of all the above terms and conditions, as they sign on this registration form & Corsol International will not be responsible for any expectation or monetary loss as indicated above.