

Modern Plant Maintenance in the Digital Transformation Age - Masterclass

Develop strong maintenance planning foundations and apply digital, AI driven asset management strategies to improve plant reliability, cost control, and performance in the digital transformation era.

Online

Dubai: 9:00 am – 3:30 pm (GMT+4, Gulf Standard Time)

Malaysia: 1:00 pm – 7:30 pm (GMT+8, Malaysia Time)

London: 6:00 am – 12:30 pm (GMT+1, British Summer Time)

Nigeria: 6:00 am - 12:30 pm (GMT +1, West Africa Time)

27th - 28th
April 2026

**Course
Facilitator:**

**Andre
Coetzee**

**Founder - Radiant
Operations International**



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Course Overview

Operating a sustainable, wealth generating entity in a demanding economic environment requires capital intensive assets to deliver efficient and reliable performance. Enterprise asset management enables world class operation, with maintenance strategy playing a critical role. Leading companies leverage maintenance to drive profitability, impacting capacity, quality, responsiveness, safety, environmental performance, and production cost. World-class maintenance increases plant profitability and delivers tangible and intangible benefits.

Strategic maintenance planning and scheduling is fundamental, enabling effective asset care activities for both short and long term equipment needs. Critical activities include day to day maintenance and service day execution, supported by skilled craft availability. Service day management involves complex risk, justified work scopes, structured decision making, and quantitative economic assessment. This masterclass integrates maintenance planning and scheduling, highlights digitalisation opportunities, and demonstrates practical applications for daily operations and service days within a structured procedural framework.

Key Learning Outcomes

Delegates will have the opportunity to expand their capabilities in the following ways:

- Understand maintenance's critical contribution to business objectives
- Learn roles, processes, and procedures ensuring organisational effectiveness
- Address all elements of job planning: standards, logistics, documentation, spares, and quality
- Determine scheduling capacity and exploit maintenance opportunities
- Assign work to the appropriate maintenance level
- Develop daily, weekly, and monthly schedules with operational commitment
- Understand service day management's critical success factors
- Apply project management principles to service day execution
- Manage scope and contain scope creep
- Identify, mitigate, and control service day risks
- Establish work management practices and maintain optimal backlog levels
- Ensure proper work order closure and accurate data for equipment history
- Reap benefits from AI, machine learning, and IIoT
- Identify opportunities to improve reliability and extend service day cycles

Why You Should Attend?

Business goals impose organisational and technical demands, requiring integration of technical and managerial strategies. Many businesses remain stuck in reactive maintenance cycles, where planning and scheduling are ineffective or absent. Symptoms include breakdowns, waiting times, reactive work, unavailable critical spares, high overtime, inefficient contractual resources, and poor data quality. Effective planning and scheduling significantly improve productivity, reliability, and availability, and strengthen partnerships between maintenance, production, procurement, engineering, and other stakeholders.

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

Lay the Groundwork for Maintenance Planning & Scheduling

Session 1: The role of planning in asset management:

- Managerial concepts
- Principles of asset management
- Wealth producing capacity
- Organizational aspects

Session 2: Planning function:

- Planning fundamentals
- Foundation of a planned maintenance system
- Asset care requirements (determination of scope)
- Tasking:
 - Activities
 - Bill of materials, special tools and support services
 - Costing

Session 3: Opportunities for execution of asset-care activities:

- Maintenance strategies
- Failure Mode and Effects Analysis (FMEA)
- Tasks identification: non intrusive to operations
- Tasks identification: intrusive to operations
- Exercise: Practical application of failure mode and affects analysis

Session 4: Source of asset management tasks (plant demand):

- Improvement and modifications
- Repairs and restoration
- Prevention and lubrication
- Condition assessment of equipment
- Previously deferred maintenance tasks

Session 5: Maintenance work orders:

- Function of work orders in a maintenance environment
- Principles of work order design
- Repairs and restoration
- Exercise: Compilation of a work order and job package

Session 6: Asset management: financials

- Time value of money
- Estimating and budgeting
- Cost Control and Life cycle cost (LCC)
- Concept of value in asset management
- Exercise: Contribution of maintenance to the value chain

Day 2

Asset Care and the Support of Plant Performance

Session 1: Critical Spares Management Optimization:

- Classification of spare parts
- Quality Control
- Exercise: optimization assessment

Session 2: Computer Supported Enterprise Asset Management

- Leveraging the computerized maintenance management system (CMMS)
- Artificial Intelligence and Machine Learning, an overview
- Industrial internet of things (IIoT) and SMART Maintenance

Session 3: 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)
- Reaping the benefits of Impact Driven Asset Management

Session 4: Scheduling function:

- Program evaluation and review technique (PERT)
- Critical path method (CPM)
- Critical chain method
- Scheduling maintenance activities
- Exercise: scheduling (using a network diagram and a Gantt chart)

Session 5: Overview of key performance indicators and control of the maintenance process:

- Overview of key performance indicators (KPIs)
- Overall equipment effectiveness (OEE)
- Strategic and tactical performance indicators
- Exercise: practical application of KPIs

Session 6: Recap: maintenance planning and scheduling (MPS) practices and skills:

- The next step: what is yours?

Programme Schedule

09:00 am – 09:30 am	Registration & Coffee Break
09:30 am – 11:30 am	Course
11:30 am – 12:00 am	Networking & Coffee Break
12:00 am – 01:30 pm	Course
01:30 pm – 02:30 pm	Networking & Luncheon
02:30 pm – 03:30 pm	Course

Who Should Attend?

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

- Maintenance & Maintenance Planning/Scheduling
- Production Planning & Operations
- Engineering & Technical Services
- Reliability Engineering & Asset Management
- Continuous Improvement & Operational Excellence
- CMMS/EAM Implementation & Digital Transformation
- Plant, Site & Facilities Management

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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-MPMDTA-005**

Course Fee

Registration Fees:

- | | |
|-------------------------|------------------------|
| • Book 1 delegate | Pay USD 1,295/delegate |
| • Book 2 or 4 delegates | Pay USD 1,095/delegate |
| • Book 5 or more | Pay USD 895/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.