

MAINTENANCE

Planning Scheduling & Cost Control

3rd - 6th February 2025

Dusit Thani Hotel, Dubai U.A.E.



Course Trainer

**Mr. Andre
Coetzee**

DirRadiant Operations Intl Pty Ltd.

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

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

Why you cannot miss this event:

Many businesses are stuck in a Reactive Maintenance cycle, with planning and scheduling ineffective at best and non-existent at worst.

Symptoms of a reactive, "fire-fighting" culture include:

- **Loss of throughput**, i.e. breakdowns
- **Maintenance workers** spend hours waiting on equipment to become available, overrunning the planned shutdown time and growing the backlog
- **Scheduled activities** mainly consist of component replacements and reactive work
- **Critical spares** are not readily available
- **Overtime is high**, workers are exhausted and ineffectively utilized
- **Inefficient utilization** of contract resources,
- **Difficulties in** eliminating chronic failures and losses due to the lack of good-quality data.

Applying the principles of this course will result in the improvement of productivity and availability, along with the development and strengthening of partnerships between maintenance, production/operations, procurement, engineering and other key stakeholders.

Learning Outcomes:

On successful completion, delegates will understand

- **Gain an understanding** of the critical contribution made by the maintenance function in achieving business objectives.
- **Understand the roles**, processes, and procedures to ensure organizational effectiveness.
- **Address all the elements** of job planning, including standards, logistics, documentation, spares, and quality.
- **Learn how to** determine scheduling capacity and exploit opportunities for maintenance.
- **Develop daily**, weekly and monthly maintenance schedules with the commitment of operations and all role players to ensure compliance with the maintenance program while reducing risk.
- **Assign work** to the most appropriate level of maintenance.
- **Convey the importance** of proper work order closure and documentation to build good equipment history through complete and accurate data input.
- **Understand the critical** success factors of shutdown management,
- **Understand the essential** project management principles and processes to manage the overall shutdown,
- **Gain skills** to manage the scope of the shutdown and contain scope creep,
- **Apply practices to identify**, mitigate and control shutdown risks,
- **Create work management** practices to control and manage work execution,
- **Identify opportunities** to extend shutdown cycles, leading to increased uptime of production assets.

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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 Effects 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:

- The function of Work orders in a maintenance environment
- Principles of Work-order design
- Repairs and Restoration

Exercise: Compilation of work order and job package.

Day 2

Operational Environment of Maintenance Planning & Scheduling

Session 1: Asset management: financials

- Time value of money,
- Estimating and budgeting,
- Cost Control,
- Life cycle cost (LCC),
- Concept of value in asset management, and

Exercise: Contribution of maintenance to the value chain

Session 2: Risk within asset management practices:

- Risk management,
- Risk identification and quantification, and
- Risk response strategies.

Session 3: Safety within asset management practices:

- Hazard types,
- Safety programs, and
- Task-related safety aspects.

Session 4: Leveraging the computerized maintenance management system (CMMS)

- Work orders and resource management optimization,
- Critical spares management optimization,
- Concept of the digital twin, and

Exercise: optimization assessment.

Session 5: Scheduling function:

- Program evaluation and review technique (PERT),
- Critical path method (CPM),
- Critical chain method, and
- Scheduling maintenance activities.

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Day 3

Asset Care and the Support of Plant Performance

Session 1: Shutdowns (Turnarounds/Outages) and principles for determining the scope of work:

- What goes into and what stays out of the scope of work,
- Managing scope creep and emerging work, and
- Budgeting and resourcing of shutdown activities.

Session 2: Shutdown Preparation:

- Roles and Responsibilities
- Spares and Consumables
- Resources Allocation
- Base Plan Development

Exercise: Scheduling with a network diagram and Gantt chart

Session 3: Shutdown Execution:

- Meetings and coordination
- Appointments, Permit to work, and Lock-out/Tag-out
- Monitor/track progress
- Testing and Re-commissioning

Session 4: Shutdown Process Review

- Feedback (role players)
- Deviation analysis:
 - Positives
 - Challenges
- Capture and Integrate Findings into the EAM system:
 - Lessons learned
 - Backlogs
 - Condition Assessments
 - Improvement Opportunities

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,
- Scorecards and reporting, and

Exercise: practical application of KPIs

Day 4

Delivering Value within a Multi-Disciplinary Working Environment

Session 1: 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 the peak, and
- Reaping the benefits of Impact-Driven Asset Management®.

Session 2: Problem-solving from a maintenance planning and scheduling perspective:

- Principles of problem-solving,
- The root cause analysis techniques,
- Wicket problems and how to expose and address them,
- Co-establishment of a problem-solving culture, and

Exercise: Root cause analysis case study.

Session 3: Recap: maintenance planning and scheduling (MPS) practices and skills:

- Protecting the integrity of data, and
- The next step: what is yours?

Programme Schedule

07:30 am – 08:00 am	Networking & Coffee Break
08:00 am – 11:00 am	Course
11:00 am – 11:30 am	Networking & Coffee Break
11:30 am – 12:30 pm	Course
12:30 pm – 01:30 pm	Networking & Luncheon
01:30 pm – 02:30 pm	Course
02:30 pm – 03:00 pm	Networking & Coffee Break
03:00 pm – 04:00 pm	Course

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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: _____

Job Title: _____

Email: _____

Date: _____

PAYMENT DETAILS:

Credit Card Holder's Details - To send Payment Link

First Name: _____

Last Name: _____

Email: _____

Country: _____

Event Code: CSM-MPS-117

Course Fee

Actual Fee USD 4295/delegate

Book Before 15th December 2024

- Pay USD 3995/ delegate

Group Bookings

- Book 3 - 5 delegates USD 3695/delegate
- Book 6 or more USD 3495/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 Trainings): 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 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 will either accept the substitution or will provide a Credit Voucher of Invoice amount which can be utilized in any of our future training, with validity up to 6 months.
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- 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.