

Attend all three courses to revolutionise your maintenance management skills

Certificate In Physical Asset Management

Certified by

OMDEC
OPTIMAL MAINTENANCE DECISIONS INC.

Course I – Managing Maintenance Improvement Tools

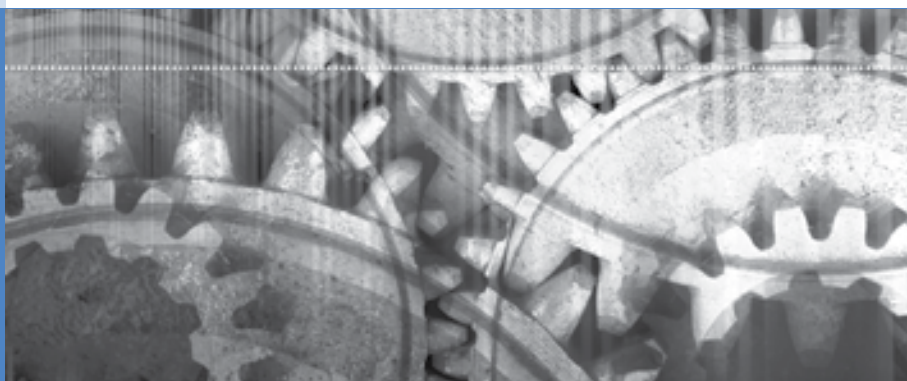
10 – 14 April 2011 • Pullman Hotel, Mall of the Emirates, Dubai, UAE

Course II – Advanced Maintenance Management Practices

10 – 14 July 2011 • Pullman Hotel, Mall of the Emirates, Dubai, UAE

Course III – Building Value In Maintenance Through Reliability

9 – 13 October 2011 • Venue TBC, Dubai, UAE



Complete this important new series of integrated training courses designed to move you and your company up in the maintenance world. Whether you are new to the maintenance business or are looking for a way to further build your skill levels or even to re-calibrate your years on the maintenance firing line, this is a programme that will set you thinking and provide a launch pad for the future.

To download industry whitepapers, visit
www.iirme.com/pam-resources

Who Should Attend?

The ideal candidates for these courses are senior technicians, planners and schedulers, maintenance and reliability specialists, supervisors, engineers and senior engineers, managers of plant operations and maintenance, facility managers and maintenance professionals who are responsible for planning, maintaining and managing the physical equipment assets of their plant and facility.

Delegates will typically represent large facilities and plants from industries such as oil and gas, pulp and paper, utilities, primary metals, heavy manufacturing, transportation, mining and large sophisticated facilities with a high service demand.

About OMDEC



Optimal Maintenance Decisions Inc. (OMDEC Inc) was founded in 2002 by OCE (the Ontario Centres of Excellence) and the University of Toronto's C-MORE (Centre for Maintenance Optimisation and Reliability Engineering). It is a private Canadian company focused on developing and applying leading edge and innovative reliability and maintenance solutions, such as EXAKT for equipment failure prediction. Retaining its close ties with C-MORE and OCE, OMDEC's client base around the world includes many mining, oil and gas, utilities, processing and transportation companies - in fact any industry where the cost of maintenance is high. OMDEC's leading edge reliability software products are used as teaching aids in Universities in many countries. OMDEC is dedicated to knowledge transfer and sharing its world-wide experience; as a result, training and hands-on consulting are equally as important as its software in keeping the company in the forefront of new technological developments in maintenance and reliability.

Meet Your Expert Programme Director



Ben Stevens

Ben Stevens has led many successful maintenance conferences and seminars with IIR throughout the Gulf region over the past decade. He has been running his own company, DataTrak Systems Inc., since 1984 with a concentration on maintenance management systems. During 1995 to 2002, Ben was on a full time contract with PricewaterhouseCoopers International Centre of Excellence in Physical Asset Management. He is President of OMDEC Inc – a Canadian company in the forefront of reliability and maintenance innovation. Prior to his work in the maintenance field, he was trained as an economist and financial manager, and he was CFO and CAO in several manufacturing companies. Ben has delivered hundreds of training programmes and delivered maintenance consulting projects to a wide range of companies in 25 countries around the world. His sessions are focused around his own experience which he brings to mini-workshops and case studies so that the examples will relate directly to the practical work environment.

Programme Timings:

Registration will be at 07:30 on the first day of each course. Course sessions will start promptly at 08:00 and end at 14:30. There will be two short breaks for refreshments and lunch will be served at the end of each day's sessions.

Certificate In Physical Asset Management

Course I, 10 – 14 April 2011

Course II, 10 – 14 July 2011

Course III, 9 – 13 October 2011

Programme Methodology

This programme is designed as a continuous series of building blocks through the three courses, but will also be of real benefit to those who select an individual course to re-calibrate their knowledge. The programme will be offered again in 2012 for delegates who wish to spread their attendance over more than one year.

Programme Overview

For the first time, IIRME along with Optimal Maintenance Decisions Inc. (OMDEC) offers this programme culminating in the **Certificate In Physical Asset Management (PAM)**. This unique programme offering a career path, is in three courses, and will guide you through the latest maintenance management tools and techniques, advanced maintenance management practices and how you can build value in maintenance through reliability.

Heavily based on practical workshops, you will draw on the live experience of many case studies. You will develop a **personal business improvement priority chart** as a take-away, based on the work during the programme. This is specifically designed to prompt you to continue your education and apply best practice and techniques at your workplace.

Programme Requirements And Certificates

This programme is held in association with OMDEC and delegates must meet three criteria to be eligible for the IIRME/OMDEC Certificate of Accomplishment:

- 1. Satisfactory attendance** – Delegates must attend all sessions of the course. Delegates who miss more than two hours of the programme sessions will not be eligible to sit the programme assessment
- 2. Participate actively** – You will be assessed continuously throughout the programme by the programme director. Case study discussion and feedback will be part of the assessment
- 3. Successful completion of the assessment** – 50 multiple choice questions

Delegates who do not meet these criteria will receive an IIRME Certificate of Attendance. If delegates have not attended all sessions, the Certificate will clearly state the number of hours attended.

Personal Development Document – Take Away

Develop a **personal business improvement priority chart** based on the work during the programme. You will identify self development opportunities and this document will play a vital role in ensuring you continue your education and apply your new skills after the programme is completed.

Course I – Managing Maintenance Improvement Tools

10 – 14 April 2011 • Pullman Hotel, Mall of the Emirates, Dubai, UAE

Course Overview

This practical five-day course will introduce you to a range of tools to improve the performance of your maintenance function. You will examine best practice tools, including benchmarking and maintenance optimisation, and define effective key performance indicators (KPIs) for the maintenance function. You will also learn about the selection and application of Computerised Maintenance Management Systems (CMMS) and Enterprise Asset Management Systems (EAMS). Effective planning, scheduling and control tools will be discussed and the foundation laid for reliability and maintenance improvement. Most importantly, you will learn the tips and techniques needed to start right away to apply these tools successfully in your workplace.

Who Should Attend?

Senior maintenance technicians, senior materials technicians, aspiring supervisors of maintenance and materials, planners and schedulers. Supervisors and managers of materials, maintenance and reliability who would like a refresher would also benefit from the course.

Top Learning Objectives

- Understand the basic building blocks of maintenance and reliability and lay the foundation for continuous maintenance improvement
- Assess and upgrade personal and maintenance department performance
- Build a personal development plan as a springboard for career advancement

Day One

Best Practice Tools

- A review of selected best practice tools
 - Physical Asset Management Pyramid of Excellence
 - Maintenance assessments and maintenance audits
 - Campbell's Quick Analysis
 - Benchmarking
 - Maintenance optimisation
- How best practice fits in with CMMS, RCM (Reliability Centered Maintenance) and similar tools
- Many practical examples of best practice

Day Two

Maintenance Performance Improvement And KPIs

- Defining and understanding KPIs
- What executives need from maintenance performance measurement
- OEE (Overall Equipment Effectiveness)
- Balanced Scorecard basics
- Maintenance dashboards
- Implementing performance management tools and KPIs
- Troubleshooting KPIs
- Many practical examples of KPIs

Day Three

CMMS/EAM – Introduction

- CMMS/EAM – an essential tool in modern maintenance management – components and structures
- Defining how the CMMS works
- The role of the work order in the CMMS
- Management of materials, permits, contractors tools and other resources
- Benefits of a CMMS
- Building the right objectives for your CMMS
- Best practices as they apply to CMMS
- CMMS and KPIs
- CMMS reports that make sense

CMMS/EAM – Selection

- Defining the scope of the CMMS project
- Essential steps to the right CMMS selection
- The project team, mandate and budget
- Preparing the request for information
- Criteria for selecting initial vendors
- Preparing the request for proposal
- Preparing the detailed evaluation criteria
- Preparing the short list
- Selecting the preferred vendor, references and site visits
- Post-selection requirements

Day Four

Maintenance Improvement – Applying CMMS/EAM

- Purposes and promises – what are they for, what can they do?
- Recognising and measuring the value of CMMS
- CMMS, equipment reliability and maintenance improvement
- Using CMMS to introduce and improve cost control
- The use of CMMS to improve reliability
- Pay-off – making these values work for your organisation

Maintenance Improvement – Effective Planning, Scheduling And Control

- Role and objectives of effective planning, scheduling and control
- The impact on maintenance performance
- Best practice for improving maintenance
- Measuring the results and outputs of planning, scheduling and control
- Planning and scheduling tools such as Critical Path, PERT, Gantt charts, Microsoft Project and Excel, resource levelling
- Scheduling and backlog management and priorities
- Key control elements – scope, work, quality, time, costs, failures

Day Five

Laying The Foundation For Reliability – RCM And Maintenance Improvement

- How RCM fits into physical asset management
- Key components of RCM – failure modes, failure effects and consequences
- Implementing and managing the RCM project
- Identifying and achieving the benefits and avoiding the pitfalls
- Using RCM to reduce costs, and improve preventive and predictive maintenance (PMs)
- RCM as a continuous improvement tool
- Introducing the CMMS – RCM linkages

Course II – Advanced Maintenance Management Practices

10 – 14 July 2011 • Pullman Hotel, Mall of the Emirates, Dubai, UAE

Course Overview

This five-day course has been designed around advanced maintenance management practices. Through practical exercises and case studies you will be able to lead long-term change and improvement initiatives using asset management strategies and total productive maintenance (TPM). You will examine all aspects of maintenance project management and use practical failure management techniques to strategically improve decision-making. By selecting smart maintenance tactics and advanced methods of CMMS optimisation you will achieve effective cost control and reliability of your processes and equipment. The emphasis throughout will be on the practical application of these techniques every day in your workplace.

Who Should Attend?

Graduates of Course I, aspiring managers, maintenance and materials supervisors and managers, senior planners, schedulers and technicians and reliability specialists.

Top Learning Objectives

- Recognise and benefit from new ideas and techniques whilst effectively avoiding pitfalls
- Expand your maintenance knowledge base to enhance your career and the company's business. Discuss and practice latest techniques during the course workshops
- Build on your personal development plan by focusing on success factors

Day One

Asset Management Strategy

- What is maintenance strategy – why is it important?
- Developing a maintenance strategy
- Strategy vs. tactics – is there a difference?
- Practical examination of strategies
- Examining the benefits of different strategies
- Costing different strategies

Day Two

CMMS/EAM Optimisation – Advanced Methods And Practices

- Maintenance improvement through CMMS
- Improving equipment and work management
- Improving materials and stores
- Best practice through CMMS
- Using CMMS to improve equipment reliability
- Process for extracting the value from CMMS
- The critical role of the work order
- The use of CMMS in living reliability
- Looking to the future

Day Three

Putting Smart Ideas Into Practice – Selecting The Right Maintenance Tactics

- The role and impact of tactics in good maintenance practice
- Use of tactics in controlling cost and reliability
- Examination of different types of tactics

- Which tactics when – and why
- Risk and tactics
- Cost of the right tactics, cost of the wrong tactics
- Making the right tactics work

Putting Smart Ideas Into Practice – Failure Management Techniques

- Introduction to failure and reliability
- Continuous reliability improvement and RCM
- Overview of maintenance tactics
- Practical failure analysis and diagnostic decision-making
- Successful failure reporting
- Failure prediction and avoidance
- Failure analysis programs and what they require to be successful

Day Four

Maintenance Project Management

- The role of project management in maintenance
- Defining the project objectives
- Setting the stage for measuring success or failure
- Building the project methodology
- Managing scope, time, cost and quality
- The project leader and the team responsibilities
- Keeping track – the administration process
- Contingency planning

Day Five

Implementing Lasting Change – Change Management In Maintenance And Physical Asset Management

- The issues behind change management
- The changes that are important in asset management
- Understanding and managing resistance to change
- Defining and managing change – benefits and costs
- Building a change management programme that works
- Case studies in change management

Implementing Lasting Change – Using TPM To Improve Maintenance Effectiveness

- History and principles of TPM, definitions and objectives
- Costs and benefits of TPM
- TPM, OEE and just-in-time (JIT)
- When not to use TPM
- Examining the key TPM phases:
 - Stabilise reliability
 - Lengthen asset life
 - Optimise asset conditions
 - Optimise life cycle costs
- Step by step implementation of TPM
- Measuring success in TPM

Would You Like To Run This Course In-House?



customised training solutions

Customised Training Solutions is the in-house training division of IIR Middle East.

Our Customised Training Solutions team are veterans of in-house training with a portfolio of specialists unrivalled anywhere in the Middle East! To design your training projects with significant business impact, please contact Leigh Kendall on: +971-4-335 2439 or email our team at cts@iirme.com

www.iirme.com/cts



Course III – Building Value In Maintenance Through Reliability

9 – 13 October 2011, Venue TBC, Dubai, UAE

Course Overview

This practical, intensive and advanced course is the final stage of the programme and focuses on techniques to achieve and manage reliability. You will be able to make effective maintenance decisions and determine your maintenance strategy using risk measurement practices. Practical workshops will expose you to financial management and budgeting so that you build value for the maintenance department. You will discuss the usage and maintenance of expert systems and their relation to other maintenance tools. This course will equip you with advanced skills and knowledge for you to ensure continuous maintenance improvement through Living Reliability. Once again, delegates will concentrate on identifying how best to apply these skills to their workplace.

Who Should Attend?

Graduates of Courses I and II, senior maintenance and materials supervisors, maintenance managers, materials managers, superintendents, senior maintenance and materials specialists, senior reliability specialists, planning and scheduling supervisors and managers.

Top Learning Objectives

- Understand the impact of financial management – why and how we must become more astute as business managers – not just maintenance managers
- Reliability improvement is not happenstance; learn how attention to some straightforward techniques and basic analyses can improve your overall reliability
- See why EAM's will not give you the answers you need – and how you can use their base data to feed advanced analysis
- Concentrate on the logic behind decision-making; see how to convert those gut-feelings into rational and supportable arguments

Day One

Achieving And Managing Reliability

- Exploring reliability – definitions and measurement
- Reliability curves – what do they show, what can they teach us?
- Using reliability curves to suggest maintenance tactics
- Reliability building blocks
- Reliability centred knowledge
- Understanding and predicting equipment life
- Measuring success in reliability

Day Two

Maintenance Risk Management

- Defining risk in maintenance
- Putting practical costs and percentages on risk
- Using risk measurement in maintenance decisions
- Risk reports
- How risk determines maintenance strategy
- Practical examples of risk calculation
- Applying risk management in the daily work of maintenance

Day Three

Financial Management In Maintenance

- Why financial management in maintenance is important to business managers
- ROI, payback, cash flow and other financial KPIs
- Using reliability to improve profitability
- Applying finances to maintenance, day-to-day operations and to projects
- Basic (and useful) cost reports
- Making sense of budgeting
- Cost avoidance in the maintenance department
- Calculating value in maintenance

Day Four

Using Financial Management In Maintenance – Practical Workshops

- Comparing the costs and benefits of different maintenance tactics
- When run to failure is a good business decision
- Preparing basic ROI and cash flow calculation
- Preparing the financial section of a project proposal
- Preparing operating and capital budgets for maintenance
- Measuring the impact of maintenance on profit
- Linking OEE with ROIs

Day Five

New And Advanced Technologies – Ensuring Continuous Maintenance Improvement With Living Reliability

- What is Living Reliability?
- How can it help in maintenance?
- Using Living Reliability to build the maintenance knowledge base
- How Living Reliability links CMMS with RCM and build reliability
- Converting preventive maintenance, corrective maintenance and breakdown maintenance into Living Reliability
- Simple steps to implement Living Reliability


New And Advanced Technologies – Maintenance Expert Systems


- Role and purpose of expert systems
- Data and knowledge – the basic requirements for effective use of expert systems
- Practical examples of expert systems
 - Failure prediction
 - Remaining useful life
 - Life cycle costing of vehicles and equipment
 - Failure diagnosis and most probable resolution
- How they relate to the current tools such as CMMS, RCM and CBM
- Conditions for success
- On-going maintenance of expert systems

Certificate In Physical Asset Management


Dubai, UAE



FIVE WAYS TO REGISTER

 971-4-3352437

 IIR Holdings Ltd. P.O Box 21743
Dubai, UAE

GCS/IIR Holdings Ltd.
P.O Box 13977
Muharraq
Kingdom of Bahrain

 971-4-3352438

 register@iirme.com  www.iirme.com/physicalassetmgmt

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E-MAIL – a.watts@iirme.com



Interested in running this course in-house?
Please call the Customised Training Solutions Team
on 971-4-3352439 or CTS@iirme.com

Event	Date	Early Bird Discounts	
<input type="checkbox"/> Course I – Managing Maintenance Improvement Tools (BC3823)	10 – 14 April 2011	Fee Before 27 February 2011 US\$ 4,495	Final Fee US\$ 4,795
<input type="checkbox"/> Course II – Advanced Maintenance Management Practices (BC3838)	10 – 14 July 2011	Fee Before 29 May 2011 US\$ 4,495	Final Fee US\$ 4,795
<input type="checkbox"/> Course III – Building Value In Maintenance Through Reliability (BC3950)	9 – 13 October 2011	Fee Before 28 August 2011 US\$ 4,495	Final Fee US\$ 4,795

Register for any two courses: US\$ 8,390 (Save US\$ 1,200)
Register for all three courses: US\$ 12,285 (Save US\$ 2,100)

Course fees include documentation, luncheon and refreshments. Delegates who attend all sessions will receive an IIR/OMDEC Certificate of Completion.

DELEGATE DETAILS

Name:
Job Title: Email:
Tel: Fax: Mobile:

Name:
Job Title: Email:
Tel: Fax: Mobile:

Name:
Job Title: Email:
Tel: Fax: Mobile:

COMPANY DETAILS

Company:
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All registrations are subject to our terms and conditions which are available at www.iirme.com/terms. Please read them as they include important information. By submitting your registration you agree to be bound by the terms and conditions in full.

Payments

A confirmation letter and invoice will be sent upon receipt of your registration. Please note that full payment must be received prior to the event. Only those delegates whose fees have been paid in full will be admitted to the event. You can pay by company cheques or bankers draft in Dirhams or US\$. Please note that all US\$ cheques and drafts should be drawn on a New York bank and an extra amount of US\$ 6 per payment should be added to cover bank clearing charges. In any event payment must be received not later than 48 hours before the Event. Entry to the Event may be refused if payment in full is not received.

Card Payment

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Card Number:

Exp. Date: / /

Name on Card:

Signature:

Cancellation

If you are unable to attend, a substitute delegate will be welcome in your place. Registrations cancelled more than 7 days before the Event are subject to a \$200 administration charge. Registration fees for registrations cancelled 7 days or less before the Event must be paid in full. Substitutions are welcome at any time.

Avoid Visa Delays - Book Now

Delegates requiring visas should contact the hotel they wish to stay at directly, as soon as possible.
Visas for non-GCC nationals may take several weeks to process.

All registration are subject to acceptance by IIR which will be confirmed to you in writing.

Due to unforeseen circumstances, the programme may change and IIR reserves the right to alter the venue and/or speakers.

Event Venue:

Pullman Hotel, Mall of the Emirates, Dubai, UAE
Tel: 971-4-372000

Accommodation Details

We highly recommend you secure your room reservation at the earliest to avoid last minute inconvenience. You can contact the IIR Hospitality Desk for assistance on:
Tel: +971-4-4072693
Fax: +971-4-4072517
Email: hospitality@iirme.com

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