



# IEM

The Institution of Engineers, Malaysia

## VIRTUAL 2 DAY COURSE ON

# Project and Engineering Asset Maintenance Management

Organised by:

Project Management Technical Division, IEM

BEM Approved CPD: 13

Ref no: IEM24/HQ/245/C (w)

### SPEAKER:

**ASSOC PROF DR. ABD RAHMAN BIN ABD RAHIM**



DATE: 30 - 31 JULY 2024  
TUESDAY & WEDNESDAY  
9.00AM - 5.00PM

	<b>ONLINE</b> (Log-in for registration & payment: <a href="http://www.myiem.org.my/member/login.aspx">www.myiem.org.my/member/login.aspx</a> )	<b>NORMAL FEE (RM)</b> (By fax & email) Payment by cash, credit card and bank-in
IEM Student Member	125.00	240.00
IEM Graduate Member	250.00	300.00
IEM Corporate Member	400.00	450.00
Non-IEM Member	960.00	1020.00

**CLOSING DATE: 23 JULY 2024**

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# SYNOPSIS

Workers and management in many companies complain that they are too busy to take care of equipment or to perform routine maintenance activities. They run the equipment until it breaks and then complain that they are behind in their work because the equipment is unreliable. Breakdowns create havoc in low-inventory factories. They also lower quality, cause increases in inventory, ruin morale, cost money, delay schedules and waste resources. Preserving and maintaining the reliability of equipment is an essential task in a successful factory.

An effective program usually include in-depth study of preventive maintenance techniques, followed by a thorough program of maintenance control in which vital equipment is repaired before it breaks down. It is better to fix problems when they are small and seemingly insignificant than to wait for the problem to rise to “broken” proportions. This course will provide an insight of maintenance management systems and how to integrate daily operations together with maintenance. This way the company not just benefit from minimum breakdown but also from higher productivity.

This course will cover topics on maintenance policies which include breakdown maintenance, design out maintenance, preventive maintenance, condition monitoring and failure patterns. Engineering asset maintenance discuss topics on maintaining engineering assets (machine and equipment), preventive maintenance as well as autonomous maintenance. Zero breakdown covers approaches towards zero breakdown, supplier appraisal and strategy for new and existing assets. Maintenance cost is important to keep the cost low and can be managed through proper manpower, spare parts, overhead and contractors planning. Maintenance outsourcing is commonly practiced and it is important to determining the right cost, proper contractor selection and control of contractors performance.

Statistical methods for maintenance improvement can be used for variation and diagnosis through structured data collection and analysis with the use of check sheet, Pareto diagram and cause and effect analysis. Occupational safety and health hazards in in maintenance can be achieved through safe maintenance procedures and maintenance control. Design for maintainability includes analysis of design failure and issue on reliability and maintenance frequency.

## COURSE OBJECTIVES

On completion of the course, participants shall be able to:

1. Define and identify the features of maintenance management system
2. Define and identify the steps to successfully implement preventive maintenance, maintenance prevention and equipment management
3. Identify the steps to implement TPM company-wide maintenance management system
4. Identify losses and failures associated with equipment's and the manufacturing process
5. Identify steps to eliminate losses and failures

# COURSE SCHEDULE

## DAY 1

<b>Time</b>	<b>Content</b>
08:45 – 09:00	Registration
09:00 - 10:30	Maintenance Policies
10:30 - 10:45	Refreshments
10:45 – 11:45	Engineering Asset Maintenance
11:45 – 13:00	FMEA
13:00 – 14:00	<i>Lunch</i>
14:00 - 15:30	Maintenance activities
15:30 – 15:45	Refreshment
15:45 – 17:00	Maintenance Bill of Material

## DAY 2

<b>Time</b>	<b>Content</b>
09:00 - 10:30	Maintenance breakdown structure
10:30 - 10:45	Refreshment
10:45 – 11:30	Concurrent engineering
11:30 – 13:00	Maintenance project scheduling
13:00 – 14:00	Lunch
14:00 – 15:30	Maintenance project scheduling
15:30 – 15:45	Refreshment
15:45 – 17:00	Maintenance Outsourcing

### **Cancellation Policy**

No cancellation will be accepted prior to the date of the event. However, replacement or substitute may be made at any time with 7 days prior notification and substitute will be charged according to membership status.

### **Personal Data Protection Act**

I have read and understood the IEM's Personal Data Protection Notice published on IEM's website at <http://www.myiem.org.my> and I agree to IEM's use and processing of my personal data as set out in the said notice.

# SPEAKER'S PROFILE

**Dr. Abd Rahman Abdul Rahim** is an Associate Professor at Razak Faculty of Technology and Informatics, UTM Kuala Lumpur. He is also an associate lecturer at Meiji University, Tokyo, Japan. Prior to joining UTM he has worked with two multi-national corporations in the area of manufacturing. He graduated with a B.Sc. in Mechanical Engineering and B.Sc. in Engineering Management from University of Evansville USA in 1988. He obtained his MSc in Manufacturing Systems Engineering from Warwick University in 1991 and his PhD from Universiti Teknologi Malaysia in 2006. He also received a Certificate in Occupational Safety and Health in Manufacturing Industries from Worksafe Western Australia in 1998.

He has conducted training with various multi-national and local companies throughout Malaysia in the area of Operations and Production Management, Occupational Safety and Health, Emergency Response Plan, 5-S and Housekeeping, Project Management, Total Productive Maintenance, Poka Yoke, Quality Improvement, Statistical Process Control, ISO 14000, ISO 9000, HACCP, GMP, Production Planning and Control and Method and Time Study. He is also an invited speaker at Federation of Malaysian Manufacturers (FMM), National Institute of Occupational Safety and Health (NIOSH), Malaysian Institute of Human Resource Management (MIHRM), Incorporated Society of Planters, (ISP), ALAM, International Business School (IBS), Chemical Engineering Pilot Plant (CEPP), and Business and Advanced Technology Center (BATC), Institut Pembangunan Pengurusan Johor (IPPJ), Prestariang and Pusat Pembangunan Tenaga Industri Johor (Puspatri). He has also conducted training for Sudan Master Technology (SMT) in Khartoum in 2014. He was also an examiner and interviewer for Safety and Health Officer competency certificate (NIOSH).

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## REGISTRATION FORM

**VIRTUAL 2 DAY COURSE ON  
PROJECT AND ENGINEERING ASSET MAINTENANCE MANAGEMENT  
30 & 31 July 2024 (Tuesday & Wednesday)  
Closing Date : 23 July 2023**

No	Name(s)	Email Address	IEM Membership No.	Grade	Fee (RM)
				<b>SUB TOTAL</b>	
				<b>+SST 8%</b>	
				<b>Total Payable</b>	

### PAYMENT DETAILS :

Cash RM \_\_\_\_\_

Cheque no. \_\_\_\_\_ for the amount of RM \_\_\_\_\_ (non-refundable) .

**FULL PAYMENT must be settled before commencement of the course**, otherwise participants will not be allowed to enter the hall. If a place is reserved and the intended participant fails to attend the course, the fee is to be settled in full. If the participant failed to attend the course, the fee paid is non refundable. The Registration Fee includes lecture notes, refreshment and lunch.

For **ONLINE REGISTRATIONS**, please note that payment **MUST** be made **BEFORE the closing date**. If payment is not received within the stipulated time, the registration fee will be reverted to the normal registration fee.

Contact Person: \_\_\_\_\_ Designation: \_\_\_\_\_

Name of Organization: \_\_\_\_\_

Address : \_\_\_\_\_

Telephone No. : \_\_\_\_\_ (O) \_\_\_\_\_ (Fax No.)

\_\_\_\_\_ (H) \_\_\_\_\_ (HP)

Email : \_\_\_\_\_

\_\_\_\_\_  
Signature & Stamp

\_\_\_\_\_  
Date