



## Predictive and Preventive Maintenance at Workplace (PPM)



**12 – 13 FEBRUARY 2026 | 8:30AM – 4:30PM**



**FMM SARAWAK BRANCH, LEVEL 5 (SOUTH), WISMA STA,  
26, JALAN DATUK ABANG ABDUL RAHIM, 93450  
KUCHING, SARAWAK**



**FEE**

**FMM MEMBER:  
RM1134.00/pax**

**NON - MEMBER:  
RM1350.00/pax**

(Inclusive of 8% service tax)



### OVERVIEW

The two days program covering the elements of Predictive and Preventive Maintenance and giving an in depth understanding with a road map for effective implementation.



### OBJECTIVES

According to maintenance specialists, at least 40% of cost on plant maintenance incurred is wasted. It's just the tip of the iceberg. Bad maintenance is responsible for equipment failures, disrupted production schedules, delays in deliveries, and poor product quality. It is said >55% Reactive. • 31% Preventive. • 12% Predictive. • 2% others.

A good understanding of Predictive and Preventive Maintenance and implementing such activities produce good results and contribute to operational cost reductions.

The program is designed for line leaders and supervisors who are in direct operations adopting the principles of My Machine, My responsibility.

At end of the program the participants would have grasped the elements of and visualize the current working conditions against the best practices. Participants will gain insight in understanding the application of Predictive and Preventive Maintenance as a new work culture at workplace.



### FACILITATOR

**Mr Konasaigaran Alagan** holds a master's degree from New Zealand. After completing his education, he worked at a local university where he engaged in research projects funded by the International Tin Council. In 1985, he transitioned to a leading multinational glass manufacturer, where he has accumulated over twenty-five years of experience.

During his tenure, Mr Konasaigaran has worked in various facets of production, including productivity/ process improve



### TARGET PARTICIPANTS

Line Leader, Supervisor, Officer and Executives who are required to supervise their subordinates.



### PROGRAM OUTLINE

#### DAY 1

1. INTRODUCTION TO MAINTENANCE
  - LIFE CYCLE EQUIPMENT MANAGEMENT
  - EQUIPMENT CRITICALITY
  - DEFECT AND FAILURE TRUE COSTS
  - MAINTENANCE TYPES – PREVENTATIVE, CORRECTIVE, PREDICTIVE
  - WHAT IS TERMED EQUIPMENT MAINTENANCE?
  - WHY EQUIPMENTS REQUIRE MAINTENANCE?
  - COST ELEMENT INVOLVED ON EQUIPMENT MAINTENANCE
  - WHY EQUIPMENTS FAIL FREQUENTLY? ROOT CAUSES ANALYSIS
  - OBJECTIVES OF PREVENTIVE MAINTENANCE
  - STRATEGY TOWARDS ZERO EQUIPMENT FAILURES.
2. SCHEDULED(PLANNED )PREVENTIVE MAINTENANCE (PPM)
  - WHY EQUIPMENTS DETERIORATES?
  - TYPES OF EQUIPMENT FAILURES OVER EQUIPMENT LIFESPAN.
  - REASONS WHY PM IS NOT EFFECTIVE
  - MAIN OBJECTIVE OF SCHEDULED MAINTENANCE
  - 12 STEPS OF SCHEDULED MAINTENANCE

#### DAY 2

- A. INTRODUCTION TO PREDICTIVE MAINENANCE (PDM)
- B. WHAT IS PREDICTIVE MAINTENANCE?
- C. POTENTIAL FAILURE AGAINST FUNCTIONAL FAILURES
- D. THE OBJECTIVES AND AIM OF PREDICTIVE MAINTENANCE
- E. PHILOSOPHY OF PREDICTIVE MAINTENANCE
- F. IMPLEMENTING PREDICTIVE MAINTENANCE
- G. 3 BASIC REQUIREMENTS
- H. TO FORMULATE A PDM CYCLE.
- I. TECHNIQUES ON PREDICTIVE "ON- CONDITION"
- J. SELECTING PDM FREQUENCY
- K. NON-DESTRUCTIVE TESTING
- L. VIBRATION ANALYSIS, TRIBOLOGY, THERMOGRAPHY
- M. DEVELOPING A PDM PROGRAM
- N. SUPPORTING METHODOLOGIES
- O. EQUIPMENT RELIABILITY
- P. VISUAL MANAGEMENT
- Q. OPERATOR WATCH KEEPING
- R. FAILURE MODE AND EFFECTS ANALYSIS
- S. CONTINUOUS IMPROVEMENT
- T. ROOT CAUSE FAILURE ANALYSIS

For further details, please contact us: Izzati, Farrez Teh



Contact Us  
**082-332784/787**



Visit Our Website  
**www.fmm.edu.my**



Our E-mail  
**fmmsarawak@fmm.org.my**



## **PREDICTIVE AND PREVENTIVE MAINTENANCE AT WORKPLACE (PPM)**

**12 - 13 FEBRUARY 2026 | 8:30AM - 4:30PM |**

**FMM SARAWAK OFFICE, WISMA STA, LEVEL 5, KUCHING, SARAWAK**

**The Manager,**

**FMM Institute (475427W\_Sarawak),**

Tel: 082-332784 Fax: 082-332785 ,

Email: izzati\_hamzah@fmm.org.my / fmmsarawak@fmm.org.my

Dear Sir/Madam,

Please register the following participant (s) for the above programme:

(To be completed in BLOCK LETTERS)

**PLEASE TICK  ACCORDINGLY:**

**PSMB Scheme:**

HRD Corp Claimable Courses  
 Non Contributor

**FEES:**

**FMM Member: RM 1134.00/pax**  
(Inclusive of 8% Service Tax)  
 **Non Member: RM 1350.00/pax**  
(Inclusive of 8% Service Tax)

No	Name	Designation	Email	Nationality	IC No
1.					
2.					

*(If space is insufficient, please attach a separate list)*

Registration is on a first-come first-served basis. Completed registration should be forwarded to FMM Institute before **February 5, 2026**. Completed registration form online, faxed, mailed or e-mailed to FMM Institute, would be deemed as confirmed.

Those who register but do not turn up for the programme will be billed accordingly. There will be no refund for cancellation within 2 days prior to the programme, 50% refund for cancellation between 3 - 6 days and full refund for cancellation 7 days prior to the programme. However, replacement will be accepted at no additional cost. FMM Institute reserves the right to cancel or reschedule the programme and all efforts will be taken to inform participants of any changes. Should the programme be cancelled or postponed, FMM Institute is not responsible for covering airfare, hotel or other travel costs incurred by the participants.

**We hereby confirmed that (please tick accordingly):**

We will be claiming from **HRD Corp** and full payment would be made to FMM Institute in the event that no disbursement from HRD Corp under any circumstances.

We will **NOT BE CLAIMING** from HRD Corp. Payment will be made to account payee **FMM Institute** by cheque or bank transfer to **Maybank Account No. 511083-105884**

**Submitted by:**

Name:	Designation:	Email
Tel:	Fax:	Mobile Number:
Company:	FMM Membership No:	My Corporate Identity No.
Address:	Company Stamp & Signature	Date: