



PENYELENGGARAAN BERASAS MASA DAN KEADAAN

📅 April 24-25, 2024 (Wednesday-Thursday) ⌚ 8.45 am – 5.00 pm

📍 FMM Institute, Perak



Time Based Maintenance is a scheduled inspection to detect conditions that might cause breakdowns and restoring the equipment back to original condition, while Condition Based Maintenance is the control of equipment components where it is used until their life span maximise. Both the maintenance approach is a proactive and effective method to detect the deteriorating condition so that breakdowns can be prevented and eliminated so that production is not affected and no major losses occurred.

.... COURSE CONTENTS....

MATLAMAT DAN OBJEKTIF

PASUKAN PENYELENGGARAAN

- Menyelenggara Peralatan dan Fasiliti yang sedang beroperasi.
- Pemeriksaan dan Perkhidmatan ke atas Peralatan dan Fasiliti.
- Pemasangan Peralatan dan Pengubahsuaian.
- Kenal-pasti dan laksanakan Program Pengurangan Kos.

PENYELENGGARAAN

- Definasi Penyelenggaraan.
- Jenis-jenis Penyelenggaraan.
 - ✓ Penyelenggaraan Reaktif.
 - ✓ Penyelenggaraan Berasas Masa.
 - ✓ Penyelenggaraan Keadaan.
 - ✓ Pencegahan Penyelenggaraan.
- Kenapa mesin memerlukan Penyelenggaraan.
- Peranan Kumpulan Penyelenggaraan dalam Industri.
- Kenapa mesin sering rosak.
- Matlamat sebenar Penyelenggaraan.
- Strategi kerosakan bersifar

PEMELIHARAAN KEADAAN ASAL

- Kaitan kerosakan dengan kebersihan.

- Kenapa memelihara keadaan asal.
- Objektif aktiviti pemeliharaan mesin.
- Kepentingan pertahanan Barisan Pertama.
- Bagaimana memelihara keadaan asal

PENGEKALAN STANDARD OPERASI

- Kenapa kekal Standard Operasi.
- Akibat tidak mematuhi standard.
- Apakah itu Standard Operasi.
- Kawalan Visual.

PENYELENGGARAAN EFEKTIF BERASAS MASA DAN KEADAAN

- Kenapa prestasi mesin merosot.
- 6 jenis kemerosotan.
- Objektif Penyelenggaraan Pencegahan. (Berasas Masa)
- 9 langkah proses Penyelenggaraan Pencegahan. (Berasas Masa)
- Pemantauan Keadaan. – Visual dan Fizikal setiap hari.

TEKNIK-TEKNIK TROUBLE SHOOTING

- Kenapa trouble-shoot?
- Apa yang di perlukan sebelum trouble-shoot?
- 4 langkah trouble-shooting.

- Teknik 'mental mind mapping'.
- Ukuran 'MTTR'

TATATERTIB UNGGUL PASUKAN PENYELENGGARAAN

- Juruteknik SUPER
- 7 sifat unggul seorang Juruteknik.
- Analisis kerosakan.
- Menyimpan rekod kerosakan
- Membantu mencapai wawasan kilang.

PENYELENGGARAAN DAN PENGURUSAN

- Inventori Penyelenggaraan.
- Mengurangkan Inventori.
- Mengurangkan penggunaan Tenaga.
- Optimalkan Hayat Peralatan Modal. (Capital Equipment)
- Kiraan Zarah (Particle Count) – Kesan Fizikal.
- Kesan Suhu.
- Kesan Elektrik.
- Kesan Gegaran / Getaran.
- Infra-Red Scan – Thermography.
- Analisa Minyak.

KESELAMATAN DAN KESIHATAN

- Penggunaan PPE yang betul
- Penyelenggaraan PPE

....OBJECTIVES.... Upon completion of the course, participants should be able to:

- Understand the goals of the Maintenance Group.
- Proper maintenance and types of maintenance
- Why the machine often breaks down.
- Ways of preserving the original state & manage and take care of spare parts.
- Operating methods according to "Standard".
- Superior qualities of a Technician/Maintenance Engineer.
- Give an efficient effect to reduce "Maintenance Costs".
- Understand the deterioration trend of Equipment.
- Use of proper maintenance equipment.
- Safety and health in working environment

.... WHO SHOULD ATTEND....

Maintenance Managers / Engineer / Supervisor / Technician and Maintenance & Production Personnel involved in maintenance activities.

.... TRAINER....

Ts. BALASUBRAMANIAM A/L SANYASI is an experienced Instructor with more than 40 years' experience in the Industry. He has been working in the Electrical, Facilities & Maintenance field for more than 40 years and has vast knowledge in this area. He holds an Executive Diploma in Facilities and Building Maintenance Management from Universiti Teknologi Malaysia, an Executive Masters in Facilities & Building Maintenance Management from Open University Malaysia and a Diploma in Electrical Engineering from Butterworth Institute of Technology. Ts. Balasubramaniam who is a competent Chargeman, is currently holding "Penjaga Jentera Elektrik Voltan Tinggi" Sekatan BO 33kV registered with Suruhanjaya Tenaga, a registered Asean Engineering Technologist, a Professional Technologist in Electrical & Electronics Technology with Malaysia Board of Technologist and also a Qualified Technician in Building & Construction Technology registered with Malaysia Board of Technologist. He is a registered trainer with PSMB.

Ts. BALASUBRAMANIAM had been a Chargeman AO Trainer since 2000 and a Technical Trainer since 2008 having conducted numerous trainings such as Trouble Shooting Skills, Electrical Maintenance, Preventive Maintenance, Facilities Systems. He is also conducting "Executive Diploma in Facilities & Building Maintenance Management" for University Teknologi Malaysia. He is the Secretary of Technological Association of Malaysia, Penang Branch. He has worked with various Multinationals namely Hitachi Metals Electronics Perai, Advanced Disk Technology/Hoya Electronics Kulim, Johnson Controls Malaysia Sdn. Bhd., Boral Plasterboard (Lafarge) Malaysia Sdn. Bhd., Sony Electronics Perai, Honeywell Aerospace & Avionics Malaysia and Lam Research International.

~ Registration Form ~

PENYELENGGARAAN BERASAS MASA DAN KEADAAN

FMM Institute

No 1, Lorong Raja DiHilir, 30350 Ipoh, Perak

Fax: 05-5488221

Dear Sir / Madam, please register the following participant(s) for the above programme.

1.	Name		Designation	
			HP No	
	NRIC		Email	
2.	Name		Designation	
			HP No	
	NRIC		Email	
3.	Name		Designation	
			HP No	
	NRIC		Email	

(Please attach a separate list if space is insufficient)

We hereby confirmed that (Please tick (✓) in appropriate box):-

- We **will be claiming from HRD Corp** and full payment would made to FMM Institute in the event that no disbursement from HRD Corp under any circumstances
- We will **NOT BE CLAIMING from HRD Corp**. Enclosed cheque/bank draft No _____ for RM _____ being payment for _____ participant(s) made in favour of the "FMM Institute".

Submitted by:

Name:	Designation:		
Company:	Tel:	Fax:	
Address:			
Email:	FMM Membership No		

.... COURSE DETAILS....

Date: **April 24-25, 2024 (Wednesday-Thursday)**

Time: **8.45am - 5.00pm**

Venue: **FMM Institute Perak**

No 1, Lorong Raja DiHilir, 30350 Ipoh, Perak

Medium of Instruction: **B.Malaysia**

CPD: **14 hours**

Fees : Members **RM810.00/pax** Non-Members **RM972.00/pax**

(Fees inclusive of Service Tax at 8%, Course Materials, Refreshment, Lunch and Certificate of Attendance)

.... ADMINISTRATIVE DETAILS....

HRD CORP CLAIMABLE COURSE DETAILS

- Training Provider: **FMM Institute Perak** ■ MyCoID : **475427W_PERAK**
- HRD Corp Programme No: **Provided upon confirmation**

DISCLAIMER

The FMM Institute reserves the right to change the facilitator, date and to vary / cancel the course should unavoidable circumstances arise. All efforts will be taken to inform participants of the changes.

REGISTRATION

- Upon **Faxing/Mailing** the completed **Registration Form** to FMM Institute, you are **deemed** to have read and **accepted** the terms and conditions. The **course** would also be **deemed** as **confirmed** unless informed otherwise.
- Will be based on **First-Come-First served** basis.

PAYMENT

- Cheques** made in favour of "**FMM Institute**" should be forwarded to FMM Institute Perak.
- For **HRD Corp Claimable Course**, an **Attendance of 100%** is a **must**, in any case, **employers will be billed in full**.
- FMM Institute SST Registration No. **W10-1901-32000105**

CANCELLATION

Must be in Writing with Reasons ■ 7 days before the course – No payment charged ■ 3 – 6 days before the course - 50% payment charged ■ < 3 days before the course – Full payment charged ■ Participants who did not turn-up will be charged full payment ■ Replacements can be accepted at no additional cost

Closing Date:
APRIL 17, 2024