FEDERATION OF MALAYSIAN MANUFACTURING
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PROG. NO: 10001633299

NSB/01/2026
February 20, 2026

FEDERATION OF MALAYSIAN MANUFACTURING

WEBINAR

IMPROVING OVERALL EQUIPMENT EFFECTIVENESS (OEE)

Towards Zero Equipment Losses

CLOSING DATE: 7 MARCH 2026

9-10 MARCH 2026

8.30A.M - 4.30P.M

zoom

English / Bahasa Malaysia

Who Should Attend?

Production Managers, Plant or Factory Managers, Maintenance Managers and Engineers, Reliability Engineers, Manufacturing or Process Engineers, Continuous Improvement and Lean Executives

IMPROVING OVERALL EQUIPMENT EFFECTIVENESS (OEE) TOWARDS ZERO EQUIPMENT LOSSES

8.30AM - 4.30PM | **9-10 MARCH 2026** | **VIA ZOOM**

COURSE OVERVIEW

Overall Equipment Effectiveness (OEE) began to be recognized as a fundamental method for measuring plant performance, OEE is a crucial measure in TPM that tells you how well your equipment is running. It links three elements in one percentage, the time the machine is actually running, the quantity of products the machine is turning out, and the quantity of good output.

Before OEE, people monitored equipment performance through Availability or Downtime. This was acceptable until it was realized that you could have the same downtime for the same piece of equipment over different timeframes yet get a different output.

Overall Equipment Effectiveness (OEE) is a multi-dimensional metric that provides an overall measure of the effectiveness and utilization of a machine or production line, this is performed by multiplying availability by performance and quality, one of the most important KPIs for Industries, it is why measuring and monitoring KPIs is critical to the success of any Industries.

COURSE OBJECTIVES

Upon completion of this interactive training session, participants will be able to:

- Have a thorough understanding of the practical realities of the OEE measurement process for a range of applications and Industries
- Know some of your options for OEE Software
- Why is OEE a Key Indicator to Measure Lean Manufacturing Performance?
- How can OEE be used as a problem-solving tool?
- What will Sustainable Improvements in OEE give us?
- What are the Key Success Factors and Pitfalls to Avoid?

SPEAKER'S PROFILE

Mr S. Nyana Pragasam's academic qualification is Master of Science in Manufacturing, holds Bachelor of Science Electrical and Electronic Engineering and Diploma in Mechanical Engineering. He is also a Member of the International Association of Engineers (IAENG) He is an accomplished practitioner, consultant and trainer in the areas of Maintenance Management System, specialized in ISO 9001, ISO/TS 16949/ LRQA implementation, conducting internal and external audits and certification at Factory Level. He is also a certified plant auditor for ISO/TS 16949, LRQA and TPM (PM) . He has more than 25 over years of working experience, started his career at Siemens Malaysia later at Motorola Semi-conductor, in the areas of Quality, Productivity, Maintenance discipline and has served in Managerial position.

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PROGRAM SCHEDULE & COURSE CONTENTS

Time	Program Details (DAY 1)
8.15AM	Zoom Log In by Participants
8.30AM	**Module 1** **Introduction to TPM and OEE** 1. What is TPM? | 2. TPM Principles 3. Why is TPM Important? | 4. TPM Goals 5. TPM Reduces Waste | 6. TPM Pillars & Activities 7. TPM Benefits
10.30AM	**Morning Break**
10.45AM	**Module 2** **OEE Understanding Equipment-Related Losses** 1. What is OEE? | 2. Three Key elements of OEE 3.World Class OEE | 4. Implication of OEE. 5.Why is OEE Important? 6.How to calculate OEE? •Measure Availability •Measure Performance •Measure Quality 7.OEE and Capacity | 8.Benchmarking of OEE 9.How to improve OEE? | 10. Benefits of Calculating OEE 11. What Affects the OEE Losses? 12. Conducting an OEE Loss Analysis 13. OEE is a Diagnostic Metric
12.30PM	**Lunch Break**
1.30PM	**Module 3** **Understanding the 6 Big Losses and how to address their root causes** 1.Six Big Equipment Losses 2.Visualizing OEE and the Six Big Losses 1.Breakdowns. 2.Setups and adjustment. 3.Idling and minor stoppages. 4.Speed losses. 5.Quality defects and rework. 6.Start Up Loss 3.Equipment Losses & OEE 4.Six Big Losses & Countermeasures 5.Strategies for Zero Breakdowns 6.Introduction to Lean manufacturing principles
3.00PM	**Afternoon Break**
3.15PM	**Module 4** **Understand the performance improvement by OEE** **OEE Data Collection: A Traditional Simple Approach** 1.Collecting Data about OEE 2.Clarify Your Purpose for Collecting Data 3.Collecting OEE Data 4.Basic Tools for Evaluating Data 5.Brainstorming to Gather Ideas 6.Processing OEE Data 7.Measuring OEE 8.Reporting OEE Data 9.Closing the Feedback Loop 10.Practical Tips for Measuring OEE
4.30PM	End of Day 1

Time	Program Details (DAY 2)
8.15AM	Zoom Log In by Participants
8.30AM	**Module 5** **Design and implement the OEE** 1.Improving OEE on Existing Machinery 2.Using Pareto Analysis to Identify What Needs Improvement Most 3.Implementing a Quick Changeover to Improve Process Flexibility 4.Benefits of Quick Changeover 5.Failure States of Equipment 6.Benefits of Tracking OEE 7.Relationship Between TPM & OEE
10.30AM	**Morning Break**
10.45AM	**Module 6** **Understanding the role of IoT in the future of OEE improvement** **What is an OEE Dashboard?** 1.Dashboards for one machine, Dashboards for the whole shop 2.Displaying OEE for a single machine 3.Displaying OEE for the whole shop 4.Why you need an OEE dashboard 5.Putting OEE in context 6.OEE over time 7.OEE with other analytics 8.OEE with human-centric data 9.Getting Started with OEE Dashboards 10. Establish Your OEE Baseline
12.30PM	**Lunch Break**
1.30PM	**Module 7** **Develop TPM Culture and Implementing Equipment Reliability and Maintenance** **Plan continuous improvement activities.** 1.Measurement tools for performance of OEE. 2.Calculating Mean Time between Failures Parameters 3.Calculating Mean Time to Repair or Replace 4.Calculating Scheduled Downtime 5.How to Eliminate Minor Stoppages 6.How to Sustain TPM & OEE 7.Critical Success Factors 8.Evaluating Equipment Conversions
3.00PM	**Afternoon Break**
3.15PM	[**CONT'D**] **Module 7** **Develop TPM Culture and Implementing Equipment Reliability and Maintenance** **Plan continuous improvement activities.**
4.30PM	End of Programme

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PARTICIPATION FEE *(Inclusive of 8% SST)*

FMM Member RM 972.00 per pax

Non - Member RM 1,080.00 per pax

PAYMENT METHOD

1) HRDCORP GRANT (SBL - KHAS SCHEME)

- No payment to FMM.
- Fund must be sufficient. Fee will be deducted from the employer's HRDCorp contributions.
- Full payment is to be made to FMM in the event that no disbursement from HRDCorp under any circumstances.

2) DIRECT PAYMENT TO FMM via Online Banking / Cheque

Payee Name: **FEDERATION OF MALAYSIAN MANUFACTURING**

Bank Name : Malayan Banking Berhad

Account No : 505176510151

SST Registration No : W10-1901-32000105

***To provide FMM with the payment slip / advice once payment has been made.*

REGISTRATION

- All registration together with the payment should be made before the event date.
- Registration is on a first-come-first-serve basis.
- For SBL-KHAS Scheme, an attendance of 100% is a must, otherwise employers will be billed in full.
- For SBL-KHAS Scheme, grant approval must be provided to FMM at least 3 days before the event date.
- Upon submission of the completed Registration Form to FMM, you are deemed to have read and accepted the terms and conditions. The program would also be deemed as confirmed unless informed otherwise.
- Certificate will only be issued upon full disbursement from HRDCorp / payment from employer.

REPLACEMENT/CANCELLATION/NO SHOW

- Must be made in writing with reasons to FMM.
- Full payment fee will be charged by FMM for cancellation within 2 days prior to the event
- Participants who **did not turn-up will be charged full payment.** Invoice will be sent to the employer after program ends.
- Replacement can be accepted at no additional cost.
- FMM reserves the right to cancel or reschedule the program. All efforts will be taken to inform participants of the changes.

REGISTRATION FORM

FMM Negeri Sembilan (Attn: Ms. Eyda/Ms. Niza) Email: herdawaty@fmm.org.my / niza@fmm.org.my Tel No: 06-603 1626 Fax No: 06-603 1628

1) Name : .....
Designation : .....
E-mail : .....
NRIC : .....

2) Name : .....
Designation : .....
E-mail : .....
NRIC : .....

3) Name : .....
Designation : .....
E-mail : .....
NRIC : .....

Payment:

Full payment of RM ..... will be made via:-

◯ HRDCorp SBL-KHAS Scheme ◯ Cheque

◯ Online Banking

Submitted by: ☐ FMM Member ☐ Non-Member

Name : .....
Designation : .....
Company Name : .....
Membership No. : .....
ROC No. : .....
Tel : ..... Fax : .....
TIN No : ..... SST No. : .....
E-mail : .....
Address : .....
: .....
: .....