



Organised by **FMM INSTITUTE** (475427-W) **Perak Branch**  
*Centre For Professional Development*



# LEAN MANUFACTURING BREAKTHROUGH TECHNIQUES

**August 15 & 16, 2022 (Monday & Tuesday) 8.45 am – 5.00 pm**  
**Remote Online Learning via Zoom**

**T**his workshop must be attended if your operations need to become more responsive to your customer's needs. You will be introduced to the many concepts that fall under the umbrella of lean, more so you will also get tangible ideas that you can take back to work and implement. Lean Transformation is a process that can help you to substantially reduce inventories, Work-In-Process, required floor space, cycle times and lead times. It can also dramatically improve quality connecting processes and people to allow errors to be caught faster.



## OBJECTIVES

- Be able to analyse value
- Serve as an eye-opener to see & attack waste
- To be able to start lean transformation projects which are effective
- Learn the lean culture
- To reduce lead time
- To be relevant in the eyes of the customer by providing value added services

## LEARNING OUTCOMES

Upon completion of the course, participants will be able to:

- Understand and implement lean activities
- Identify wastes in the shop-floor- to generate lean project ideas
- Differentiate between value and non-value added activities in order to transform to become a lean organization
- Understand all the tools of Lean such as Poka-Yoke, SMED, Jidoka, 5S, Pull System, Cellular Manufacturing, One-Piece Flow, JIT & many more

## WHO SHOULD ATTEND

- Engineers, managers, supervisors, manufacturing personnel, team leaders, executives and change agents
- Anyone who wants to make improvements happen and to create value for the company

## TRAINING METHODOLOGY

Informative presentation, Group discussion & Presentations, Real Case Studies & Video Presentations

Enquiries – please contact **Ms Nicole / Ms Divya / Pn Eda / Ms Harvindar**  
☎ (05) 548 8660 📠 (05) 548 8221 ✉ [fmmperak@fmm.org.my](mailto:fmmperak@fmm.org.my)

# COURSE CONTENTS

## Module 1

### THE HISTORY OF LEAN TRANSFORMATION

- Introduction to Lean
  - ✓ The history of TPS
  - ✓ Craft Manufacturing to Mass Production
  - ✓ Mass Production to Lean
  - ✓ Traditional Steps of Manufacturing
  - ✓ Objectives of Lean & Why is it Important to make this transformation

## Module 2

### THE LEAN PRINCIPLES

- Just-In-Time (JIT)
  - ✓ Value
  - ✓ The Value Stream
  - ✓ Flow System
  - ✓ Pull & Kanban system
  - ✓ Perfection

## Module 3

### VALUE ANALYSIS

- Analysis Value versus non-value added activities to make the transformation
  - ✓ Muda, Mura, Muri
  - ✓ Gemba-Gembutsu
  - ✓ Identify and analyse Non-Value-added activities
  - ✓ Identify and analyse value-added activities

## Module 4

### THE EIGHT WASTE

- Identification and elimination of Muda
  - ✓ Transportation
  - ✓ Inventory
  - ✓ Motion
  - ✓ Over-production
  - ✓ Over-processing
  - ✓ Waiting
  - ✓ Defects
  - ✓ Non-Utilized Skill

## Module 5

### THE TOOLS OF LEAN

- When and How to Use Lean Tools
  - ✓ 5S- Sort, Set in Order, Shine, Standardize, Sustain
  - ✓ Identification and elimination of Muda.
  - ✓ 5S- Sort, Set in Order, Shine, Standardize, Sustain
  - ✓ Jidoka- Autonomation, TPM
  - ✓ Poka-Yoke for Error Proofing
  - ✓ Takt-Time for Flow
  - ✓ Pull System, Kanban
  - ✓ Quick Changeover/ SMED- For Flexibility
  - ✓ Cell Concept

## Module 6

### CONCLUSION

- Getting started
  - ✓ Sample Case Studies
  - ✓ Change Agent
  - ✓ Projects

# TRAINER

**MR AMOS ANDREW A/L ANDREW** holds a Bachelor of Engineering (Honours) degree in Industrial Engineering from the University of Bradford, UK. He is a registered member of the Society of Manufacturing Engineering (SME) and has served the Multinational Companies in the capacity of Senior Industrial/Lean Engineer. Thereafter he went into coaching and trainings related to continuous improvements, leadership and change management as a technical training manager in a multinational company based in Vienna, Austria. Being trained in Japan under Toyota and benchmarking various world class companies in Japan such as Mitsubishi Motors, Lexus, Toto, Denso and many more, Mr Amos holds a high credibility in sharing his experience from the best manufacturing companies in the world. He has also been awarded the Lean Bronze Certification, USA and the Global Leadership Train the Trainer Program. Maynard has certified him as a Blue Card Holder of Basic MOST, which is a work method standardizing technique in industrial Engineering.

With his 10 years of experience in various manufacturing industries, Mr Amos has coached, trained and developed many participants specialising in the areas of Lean Manufacturing, 6S Implementation, Problem Solving, Work Study / Time Study, Kaizen Implementation and Leadership Skills. He has trained many multinationals such as Shell, Top Glove, Affin Bank, Semperit Group, Pen Group, CJ Bio, Recron, Johnson Matthey, KESP, South East Technologies, Mattel and many more. Mr Amos is a registered trainer with HRDF.

## COURSE DETAILS

Date **August 15 & 16, 2022 (Monday & Tuesday)**  
Time **9.00 am – 5.00 pm**  
Platform **Remote Online Learning via Zoom**  
Medium of Instruction **English**  
CPD **14 hours**  
Fees **Members RM689.00/pax**  
**Non-Members RM848.00/pax**  
*(Fees inclusive of Service Tax at 6%, Downloadable Course Materials and Certificate of Attendance)*

- ❖ *Download and install ZOOM app on your laptop/desktop before the programme*
- ❖ *Good Internet / Wi-Fi connectivity*
- ❖ *Access Links will be provided upon confirmation of the programme*

## 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 **SBL-KHAS Scheme**, 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

## ~ REGISTRATION FORM ~

# LEAN MANUFACTURING BREAKTHROUGH TECHNIQUES

**Closing Date:  
AUGUST 8, 2022**

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

*(Please attach a separate list if space is insufficient)*

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

- We **will be claiming under SBL-Khas Scheme** and full payment would made to FMM Institute in the event that no disbursement from HRDF under any circumstances
- We will **NOT BE CLAIMING under SBL-Khas Scheme**. 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	