



FMM Institute
Centre for Professional Development



FEB 21, 22, 23, 24 & 25, 2022 • 9:00 AM TO 5:00 PM

FACTORY AUTOMATION IN THE ERA OF INDUSTRY 4.0

Remote Online Training

Who Should Attend
C-level, Heads of Department, Managers and
Engineers



ONLINE TRAINING PLATFORM

talent  lms

zoom



Course Overview

The 4th Industrial Revolution focuses on integrating the cyber and real world to collaboratively work together in order to create a smart environment for manufacturing. Implementations of sensors and data communication protocols play a vital role in creating the cyber-physical system.

Industry 4.0 creates what has been called a "smart factory". Within the modular structured smart factories, cyber-physical systems monitor physical processes, create a virtual copy of the physical world and make decentralized decisions. Over the Internet of Things (IIoT), cyber-physical systems communicate and cooperate with each other and with humans in real time, and via the Internet of Services, both internal and cross-organizational services are offered and used by participants of the value chain.

This programme provides a comprehensive overview of the programme which includes the value to the industry and how well this programme is recognized by the industry. This programme enables the participants to have a good overview of applicable IIoT real solutions and best practices especially for SME Manufacturing where their needs are not as extensive as those of the MNCs – but the SMEs do not have in-house resources & capabilities to run a full IIoT ideation and implementation by themselves.

The first 3 days focus on real-life applications in the present legacy/brownfield industries (especially SMEs) in Malaysia. The last 2 days focus on Linking Lean & Industry 4.0.

FMM Institute
Wisma FMM, No. 3 Persiaran Dagang, PJU 9
Bandar Sri Damansara, 52200 Kuala Lumpur
Website: www.fmm.edu.my
Email: training@fmm.org.my
Call: 603-6286 7200

Course Contents

- Introduction to Industry 4.0
- Pillar 1: Supply Chain
- Pillar 2: Industrial Internet of Things
- Pillar 3: Autonomous Robot
- Pillar 4: Addictive Manufacturing
- Pillar 5: Vertical & Horizontal Integration
- Pillar 6: Simulation & Augmented Reality (AR)
- Pillar 7: Cyber Security
- Pillar 8: Cloud Computing
- Pillar 9: Big Data Analytics
- Presentation of Implementation of all 9 Industry 4.0 Pillar in an Organization
- Lean Concept of Value
- Continuous Improvement - Towards Perfection and Linking Lean & Industry 4.0

Course Objectives

- Understand the pillars that is important in implementing industry 4.0 in an organization and daily life as well as how the industry have evolved from Industry 1.0 till Industry 4.0
- Help participants to identify the pain points of their own plants and to know what available solutions are available; and they are able to apply the relevant solutions to solve their pain points
- Understand the concepts and implementation of Lean Manufacturing
- Enhance the importance of Value Stream Mapping, supporting tools and techniques and implementation
- Map the current processes
- Understand the relationship between Industry 4.0 technologies and Lean Manufacturing

FACILITATOR

MR ROYCE TAN

Royce Tan is with the BOSCH Group for 26 years and much of his career is in supplying to Automotive OEM Manufacturing. Over the last 2 years Royce has more than a hundred visits to the SME local manufacturing industries. He found that all industries have similar pain points such as no real time real data acquisition, any data acquisition are still manual which is very prone to error and delay. Many productivity losses are due to the inability to connect equipment for data acquisition to determine their OEE. He also found out that there are no active and real time specific user visualisation, processes are not digitised to enable the accurate production cost calculation on per piece basis and resources are tied up in the inaccurate tracking & inventory of goods & tools within the factory. As such, the industry kept on employing people & foreign workers to cover up for the productivity short fall. I4.0 solutions are ready for these fundamental problems. With the working experience in BOSCH Group and involvement in the local manufacturing industries, Royce Tan is highly qualified to facilitate the proposed programme IoT and Industry 4.0 Using BOSCH Sensor and IoT Gateway.

EN MUHSIN AHAMED

Muhsin Ahamed has many years experience in the Manufacturing Sector in world class MNCs in Malaysia (Motorola Semiconductor, B. Braun Medical Penang, Seagate Penang & Likom Sdn Bhd). His experience includes Manufacturing, Quality Assurance, Production Planning & Control, Human Resource Development and Human Resource Management functions. He has a B.Sc. in Chemistry and diploma/certificates in Management and Human Resource Development, Computer Programming, Electronics Engineering and Computer Based Training. He has been involved in ISO9001 auditing and training since 1992, when he trained about 400 personnel at B.Braun Medical Industries Sendirian Berhad on ISO awareness, ISO Documentation System and Internal Quality Auditing. He was most recently certified as Lead Auditor in 2015 by SIRIM. He has actively participated in quality initiatives such as QCC/ICC, SPC and Six Sigma implementation. His manufacturing experience includes implementation of 5S, SCM (Short Cycle Manufacturing), JIT and Lean implementation. His other area of expertise is in the skill enhancement area such as developing Competent On-Job-Trainer Certificate program for FMM Institute.

For details, registration, and a list of other courses, please visit our website at www.fmm.edu.my. You can also inquire at (603) 6286 7200 or email to Ms Ong Li Choo at lichoo@fmm.org.my.

Registration Form

Factory Automation in the Era of Industry 4.0

February 21, 22, 23, 24 & 25, 2022

9.00 am - 5.00 pm (35 hours)

The Manager

FMM Institute (475427-W)

Tel: 03-6286 7200 Fax: 03-6277 6712

Email: training@fmm.org.my

Please tick accordingly:

Fees: **FMM Member: RM4,240/pax**
(inclusive of 6% Service Tax)

Non Member: RM5,300/pax
(inclusive of 6% Service Tax)

Dear Madam,

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

(To be completed in BLOCK LETTERS)

1. Name **Designation** **Email**

Nationality **IC No.** **Mobile No.**

2. Name **Designation** **Email**

Nationality **IC No.** **Mobile No.**

(if space is insufficient, please attach a separate list)

Disclaimer

Registration is on a first-come first-served basis. All cancellations must be made in writing. There will be no charge for cancellation received 14 or more working days before the start of the webinar. Cancellation received 7 – 14 working days before the start of the webinar is subject to a cancellation fee of 50% of the webinar fees. Cancellation received 6 working days and below before the start of the webinar is subject to a cancellation fee of 100% of the webinar fees. If the participant **fails to attend** the webinar or **less than 75% attendance**, the **full webinar fees are payable**. However, replacement can be accepted at no additional cost. The FMM Institute reserves the right to change the speaker, reschedule or cancel the webinar and all efforts will be taken to inform participants of the changes.

We hereby confirmed that (please tick accordingly):

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**. Payment will be made to account payee **FMM Institute** by cheque or bank transfer to Maybank Account No. 5-14208-14159-0.

Submitted by:

Name **Designation** **Email**

Tel **Fax** **Mobile No.**

Company **FMM Membership No.**

Address **My Corporate Identity No.**

Company Stamp & Signature **Date**