

Virtual Half-Day Workshop on Mastering Soft Skills on Systems Thinking, Agile and Ethics: for Future-Ready Engineers and Industry Professionals



14 June 2025, Saturday
9.00 am – 1.00 pm

BEM Approved CPD: 4 Hours
CPD Ref No.: IEM25/HQ/201/W (w)



Zoom Platform



Ir. Ts. Sukhairul Nizam Abdul Razak



Register Now!

Closing Date : 6 June 2025

REGISTRATION FEE'S (subject to 8% SST)		
	Online	Normal
IEM Student Members	RM40	RM50
IEM Graduate Members	RM75	RM90
IEM Corporate Members	RM125	RM150
Non-IEM Members	RM240	RM300



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SPEAKER’S PROFILE

Ir. Ts. Sukhairul Nizam Abdul Razak began his early education at SMK Methodist ACS Klang, Selangor. He later pursued a Bachelor’s degree in Mechanical (Aeronautical) Engineering at Universiti Teknologi Malaysia (UTM) Skudai and obtained his MBA from Charles Sturt University, Australia. He has been a registered Asean Chartered Professional Engineer (ACPE) and a Professional Mechanical Engineer with a Practicing Certificate (PEPC) under the Board of Engineers Malaysia since 2016, and was also registered as a Professional Technologist with the Malaysia Board of Technologists (MBOT) in 2020. Ir. Ts. Sukhairul Nizam started his career in 1995 at Proton’s manufacturing division as a body design engineer in R&D, and subsequently held various roles within Proton Edar over 18 years. His positions included Car Body Design Engineer, Branch Sales Manager, Manager of Sales Standards, Manager of Warranty Operations, Manager of Equipment Tools & Calibration, and Head of Division Office. He also worked with Accenture Malaysia on a project for the Daimler Group. Ir. Ts. Sukhairul Nizam has held several prominent roles throughout his career, including Senior Lecturer at City University Malaysia, Programme Coordinator at First City University College, Manufacturing Lead at Keunggulan Jati Sdn Bhd, Regional Director at Leanmax Pro Sdn Bhd, and Managing Director at Enviroklar Tech Sdn Bhd. He is currently serving as a council member of The Institution of Engineers Malaysia (IEM). Ir. Ts. Sukhairul Nizam has extensive experience in designing and developing automotive components, overseeing anti-corrosion and painting development, aerodynamic development, and crash test development for Malaysia’s national car projects. Additionally, he is specialized in automotive sales training, coaching, and managing product recall activities within the automotive industry.

SYNOPSIS

In an era of globalized supply chains, automation and sustainability pressures, manufacturing and industrial professionals must go beyond technical skills to drive innovation and efficiency. This immersive half-day virtual workshop equips engineering students, engineers, managers and industrial professionals with interdisciplinary soft skills to master systems thinking, agile methodologies and ethical decision-making tailored to manufacturing challenges.

WHY SHOULD YOU ATTEND THIS WORKSHOP?

Transform your approach to industrial problem-solving by integrating systems thinking, agile workflows, and ethical frameworks – preparing you to lead resilient, sustainable and socially responsible manufacturing operations.

WHO WILL BENEFIT WITH THIS WORKSHOP:

Professionals in manufacturing, industrial engineering, and operations, including:

- Production Managers seeking to optimize workflows with lean principles.
- Industrial Engineers designing resilient, sustainable systems.
- Supply Chain Specialists addressing ethical sourcing and logistics.
- Quality Assurance Teams integrating agile methodologies for rapid iteration.
- Plant Operations Leaders balancing automation with social responsibility.

WORKSHOP OUTCOMES:

- Systems Thinking: Diagnose bottlenecks in production ecosystems holistically.
- Agile Leadership: Streamline operations using Lean and Scrum for fast paced industrial environments.
- Ethical Innovation: Advocate for sustainable materials, worker safety, and equitable automation

Target Audience

- Undergraduate and postgraduate students
- Oil and gas professionals, engineers, technicians
- Specialists working directly or indirectly within the oil, gas, and energy sectors.

PROGRAMME

* IEM reserves the right to postpone, reschedule, allocate or cancel the workshop

Time	Programm
9:00 am	Systems Thinking & Problem Solving for Manufacturing Ecosystems <ul style="list-style-type: none">• Apply systems thinking tools (e.g., value stream mapping, causal loops) to optimize production lines, supply chains, and resource allocation.• Case Study: Redesign a lean manufacturing process to reduce waste while balancing energy efficiency, workforce safety, and throughput.
10:30 am	Agile & Lean Operations in Industrial Settings <ul style="list-style-type: none">• Adapt Scrum, Lean Six Sigma, and DevOps to manage dynamic production schedules, maintenance workflows, and Industry 4.0 projects.• Simulation: Plan a sprint for a smart factory upgrade (e.g., IoT integration, predictive maintenance), prioritizing tasks and minimizing downtime.
11:30 am	Ethics & Sustainability in Manufacturing <ul style="list-style-type: none">• Navigate ethical dilemmas: AI-driven workforce reductions, balancing cost-cutting with eco-friendly materials, and ethical sourcing in global supply chains.• Debate solutions for inclusive industrial practices (e.g., upskilling displaced workers, circular economy models).
12:30 pm - 1:00 pm	Q & A & Adjourn

REGISTRATION FORM

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Email: suriani@iem.org.my

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NAME	MEMBERSHIP NO. / GRADE	FEES (RM)
Sub Total:		
SST Added 8% :		
Total Amount Payable :		

PAYMENT DETAILS :

- ☐ Cash RM_____
- ☐ Cheque no. _____for the amount of RM _____(non-refundable) .

FULL PAYMENT must be settled before commencement of the course, otherwise participants will not be allowed to enter the hall. If a place is reserved and the intended participant fails to attend the course, the fee is to be settled in full. If the participant failed to attend the course, the fee paid is non refundable. The Registration Fee includes lecture notes, refreshment and lunch.

For **ONLINE REGISTRATIONS**, please note that payment **MUST** be made **BEFORE the closing date**. If payment is not received within the stipulated time, the registration fee will be reverted to the normal registration fee.

Contact Person: _____Designation:_____

Name of Organization: _____

Address : _____

Telephone No. : _____(O) _____(Fax No.)
_____(H) _____(HP)

Email : _____

Signature & Stamp

Date