

Virtual Half-Day Workshop on Engineering the Future: Mastering ChatGPT & AI for Engineering and Construction Professionals



**31 October 2026,
Saturday
9.00 am - 1.00 pm**

*BEM Approved CPD: 4 Hours
CPD Ref No.: IEM26/HQ/425/W(w)*



Zoom Platform



Ir. Ts. Sukhairul Nizam Abdul Razak

Register Now!

Closing Date : 24 October 2026

REGISTRATION FEE'S (subject to 8% SST)		
	ONLINE	NORMAL
IEM Student Members	40.00	50.00
IEM Graduate Members	75.00	90.00
IEM Corporate Members	125.00	150.00
Non-IEM Members (Non of the Above)	240.00	300.00

SPEAKERS PROFILE



Ir Ts Sukhairul Nizam bin Abdul Razak, *MBA, DBA candidate, MIEM, ACPE, PEPC, PTech, HRDC Certified Accredited Trainer*

Ir. Ts. Sukhairul Nizam bin Abdul Razak is an experienced engineering and industry professional with over 31 years of expertise in the manufacturing and automotive sectors. He currently serves as Managing Director of Enviroklar Tech Sdn Bhd and has held various leadership and technical positions, including roles at Proton R&D, Proton Edar, Leanmax Pro Sdn Bhd, and Accenture Malaysia. He also has experience in higher education as a Senior Lecturer and programme coordinator. He holds a B.Eng. (Hons) in Mechanical (Aeronautical) Engineering from Universiti Teknologi Malaysia and an MBA from Charles Sturt University, Australia, and is currently pursuing a DBA. He is an ASEAN Chartered Professional Engineer (ACPE), Professional Engineer (Mechanical), Professional Technologist (PTech), HRDC Certified Accredited Trainer, Certified Drone Pilot, and Autonomous Systems Educator. His expertise includes manufacturing, automotive engineering, project management, lean management, autonomous systems, drone technology, professional training, and AI applications in engineering and construction.

SYNOPSIS

This virtual half-day workshop, organized by The Institution of Engineers, Malaysia, explores how ChatGPT and artificial intelligence can transform construction project management. The workshop addresses the persistent challenges facing the construction industry—where 93% of projects encounter substantial risk events, leading to 5–10% budget overruns and significant schedule delays. Participants learn practical applications of AI for automating routine tasks, enhancing risk management, improving stakeholder communication, and streamlining documentation processes. The workshop emphasizes a hybrid approach where AI augments rather than replaces human expertise, with experienced professionals providing contextual refinement to AI-generated outputs.

Who Will Benefit from This Workshop

- Project Managers – Looking to automate reporting, improve risk assessment, and enhance team communication
- Construction Managers – Seeking to streamline daily operations and improve documentation efficiency
- Site Superintendents – Wanting to optimize scheduling, safety documentation, and crew communication
- Estimators and Quantity Surveyors – Interested in quantity takeoff summaries, specification interpretation, and scope clarification
- Safety Managers – Needing efficient safety plan templates, incident reporting, and safety meeting content generation
- Contract Administrators – Handling change orders, submittal tracking, contract provisions, and claims documentation
- Engineering Professionals – Looking to understand AI applications in their field
- Construction Firm Leaders – Exploring AI integration strategies and responsible implementation frameworks
- Project Coordinators – Managing documentation, meeting minutes, and stakeholder communication

PROGRAMME

Time	Programm
9:00 am - 10.30am	Overview and Context • Current challenges in the construction industry • AI adoption landscape (61% of construction firms now use or plan to use AI) • The evolution of AI in construction management • Understanding AI capabilities and limitations • Setting realistic expectations for ChatGPT implementation
10:30 am - 11:00 am	Introduction to ChatGPT • What is ChatGPT and how Large Language Models work • Key capabilities for project managers (contextual awareness, memory, file upload, multi-format output) • ChatGPT versions and their features (GPT-4, GPT-4o, Enterprise) • Tools for team collaboration (Shared Projects, Connectors) • Prompt engineering fundamentals for construction project management
11:00 am - 11:45 am	Uses of ChatGPT in Project Management • Automating documentation and reporting (daily construction reports, meeting minutes) • Specification and contract searching • Email drafting for schedule changes, RFIs, and stakeholder communications • Risk management and analysis • Planning, scheduling, and decision support • Stakeholder communication and collaboration • Conflict resolution support
11: 45 am - 12:30 pm	Applications for Construction Management • Role-specific applications (Project Managers, Superintendents, Estimators, Safety Managers, Contract Administrators) • Integrating ChatGPT with existing tools (Gmail, Outlook, Microsoft Teams, SharePoint, Google Drive) • Data quality as a critical success factor • Best practices for integration • Ethical considerations and responsible use • Compliance features (ISO certifications, SOC 2, role-based access control)
12:30 pm - 1:00 pm	Conclusion and Next Steps • Key takeaways and critical success factors • Individual and team action planning • Prompt library starter kit • Additional resources for continuing development

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

Cancellation Policy

No cancellation will be accepted prior to the date of the event. However, replacement or substitute may be made at any time with 7 days prior notification and substitute will be charged according to membership status.

Personal Data Protection Act

I have read and understood the IEM’s Personal Data Protection Notice published on IEM’s website at <http://www.myiem.org.my> and I agree to IEM’s use and processing of my personal data as set out in the said notice.

“IEM reserves the right to alter or cancel the programme due to unforeseen circumstances at its discretion’.
For intending participants who choose to ‘walk in without prior registration’,
IEM SHALL NOT be responsible for any direct or consequential losses”.

REGISTRATION FORM

Virtual Half-Day Workshop on
Engineering the Future: Mastering ChatGPT & AI for Engineering and Construction Professionals
31 October 2026 (Saturday)
Closing Date: 24 October 2026
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.

ContactPerson:_____Designation:_____

Name of Organization:_____

Telephone No. : _____(0)

_____ (HP)

Email:_____