

# IEM

The Institution of Engineers, Malaysia

ORGANISED BY:

OIL, GAS AND MINING TECHNICAL DIVISION, IEM

# VIRTUAL HALF DAY COURSE ON ESG Essentials for Engineers in the Mineral Extraction Sector




BEM APPROVED CPD: 4

REF NO: IEM24/HQ/087/T (w)

**SPEAKER:**

YM Ts. Raja Shazrin Shah bin  
Raja Ehsan Shah

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 MyIEM HQ Official - General

 www.myiem.org.my

**SATURDAY**

**25 MAY 2024**



**9.00AM - 1.00PM**



**CLOSING DATE: 4 MAY 2024**

	<b>ONLINE</b> (Log-in for registration & payment: <a href="http://www.myiem.org.my/member/login.aspx">www.myiem.org.my/member/login.aspx</a> )	<b>NORMAL FEE</b> (by fax & email) Payment by cash, credit card and bank-in
IEM Student Member	40.00	50.00
IEM Graduate Member	75.00	90.00
IEM Corporate Member	125.00	150.00
Non-IEM Member	240.00	300.00

## SYNOPSIS

This online training is designed to equip engineers in the mining and mineral extraction sector, including those working with rare earth elements, with the necessary knowledge and methodologies for integrating Environmental, Social, and Governance (ESG) principles into their practices. Recognizing the sector's significant impact on sustainable development, this training offers foundational ESG insights, tailored to address the specific challenges and opportunities in mining and mineral extraction. Participants will learn to apply ESG principles to enhance operational efficiency, mitigate environmental impacts, ensure social responsibility, and maintain robust governance, contributing to the sector's sustainability and resilience.

## WORKSHOP OVERVIEW

Starting with an Introduction to ESG in Mining and Mineral Extraction, this segment will focus on the motivations behind the surge in global ESG reporting and the indispensability of ESG considerations within the mining and mineral extraction sector. It aims to lay down a robust ESG knowledge base, underscoring its pertinence and impact in the contemporary mining sector. This introduction will address the unique environmental, social, and governance challenges faced in the extraction of minerals and rare earth elements, setting the stage for a deep dive into ESG principles tailored to this sector.

The core of the training, ESG Strategy and Practice in Mining and Mineral Extraction, will explore several critical dimensions tailored to the unique needs and challenges of this field:

- **Environmental Stewardship in Mining:** Techniques for managing environmental impacts specific to mining and mineral extraction, including strategies for sustainable resource use and biodiversity conservation.
- **ESG Reporting and Strategic Alignment:** Demonstrating how ESG objectives can guide decisions, innovation, and project management within the mining sector. This includes aligning mining operations and strategies with global ESG goals to enhance operational efficiency and sustainability.
- **Sustainable Supply Chain Management:** Highlighting the engineer's role in promoting sustainability across the mining supply chain, from the ethical extraction of minerals to the responsible sourcing of rare earth elements.
- **Incorporation of Human Rights and Social Justice:** Discussing the influence of these principles on community engagement, labor practices, and inclusivity within mining projects. This includes addressing the social impacts of mining on local communities and ensuring fair labor practices.

"ESG Essentials for Engineers in Mineral Extraction Sector" is not merely an educational initiative but a transformative experience for engineers within the sector. This training is designed to inspire participants to champion sustainability and responsibility in their professional pursuits, with a specific focus on the challenges and opportunities in mining and mineral extraction. Participants will emerge from this training better prepared to lead in the creation of a sustainable future, making informed decisions that balance technological progress with environmental conservation, social fairness, and ethical governance in the context of mining and mineral extraction.

# PROGRAMME

TIME	DETAILS
9.00am - 9.20am	<b>Introduction to ESG in Mining and Mineral Extraction</b> <ul style="list-style-type: none"><li>• Overview of ESG principles with a focus on their importance in the mining and mineral extraction industry, including rare earth elements.</li><li>• The global context: ESG reporting trends and regulatory pressures in the mining sector.</li></ul>
9.20am - 10.00am	<b>Environmental Stewardship in Mining</b> <ul style="list-style-type: none"><li>• Challenges and strategies for managing environmental impacts specific to mining and mineral extraction, including water use, waste management, and biodiversity conservation.</li><li>• Best practices for reducing the environmental footprint in the extraction of rare earth elements and other minerals.</li></ul>
10.00am - 10.30am	<b>Social Responsibility and Community Engagement</b> <ul style="list-style-type: none"><li>• The role of mining engineers in promoting social justice, labor rights, and community engagement.</li></ul>
10.00am - 10.45am	<b>Morning Break</b>
10.45am - 11.15am	<b>Governance and Ethical Practices in Mining</b> <ul style="list-style-type: none"><li>• Understanding the governance framework: Compliance, ethics, and transparency in the mining sector.</li><li>• Strategies for combating corruption, ensuring fair trade, and ethical sourcing of minerals and rare earth elements.</li></ul>
11.15am - 11.45am	<b>Sustainable Supply Chain Management</b> <ul style="list-style-type: none"><li>• Implementing ESG principles in the supply chain: From mineral extraction to market.</li><li>• The importance of traceability and sustainability in the supply chain of rare earth elements.</li></ul>
12-15pm - 12.45pm	<b>Innovations and Technologies for Sustainable Mining</b> <ul style="list-style-type: none"><li>• Leveraging technology and innovation to address ESG challenges in mining.</li></ul>
12.45pm - 1.00pm	<b>Closing: Implementing ESG Principles and Taking Action</b> <ul style="list-style-type: none"><li>• Recap of key takeaways and strategies for integrating ESG into mining and mineral extraction practices.</li><li>• Open Q&amp;A session.</li></ul>

# SPEAKER'S DETAILS

**YM Ts. Raja Shazrin Shah** is a highly experienced professional sustainability consultant with a proven track record of success in ESG and GHG-related fields. With a career spanning over 18 years, he has held both technical and C-suite positions and has demonstrated exceptional knowledge and expertise in the multidisciplinary aspects of sustainability. He has published extensively in over 12 peer-reviewed journals and has established strong collaborations with a range of governmental, private, and international agencies. Currently, he is focused on cutting-edge research areas such as hydrogen production, renewable energy, ESG and sustainability reporting, GHG inventory development, and wastewater treatment technologies.

## **Areas of Expertise**

Chemical Engineer | Professional Technologist | Environmental Consultant | ESG | SDG | Sustainability | Carbon Footprint | R&D | GHG | Planetary Health

## **Professional/Technical Appointments ( latest 2022 – 2023)**

- Adjunct Professor, Malaysia-Japan International Institute of Technology, Universiti Teknologi Malaysia (UTM)
- Working Group Member, Taskforce on the Development of a Business Model (incorporate ESG elements) for the Establishment of a Non-Radioactive Rare Earths (NR-REE) Industry In Malaysia, Academy of Sciences Malaysia (ASM) (2022)
- Founding Member, Malaysian Association of Public Advocacy for Nature (MAPAN) (2022)
- Committee Member (Training and Programs), Malaysian Association of Engineers (MAE) (2022)
- Working Group Member, Taskforce on the Development of National Action Plan for Planetary Health, Academy of Sciences Malaysia (ASM) (2023)

## **Collaborations/Advisory Appointments**

- The National Water Services Commission (SPAN) – development of Technical Standards for water and sewage sector
- Tenaga Nasional Berhad (TNB) – national emission factor for electricity sector, ESG baseline, Scope 3 emission
- Dept. of Environment (DOE) Malaysia, Ministry of Natural Resources, Environment and Climate Change – study on Environmental Board, guideline on Cleaner Production, regulation on green industry
- Malaysian Green Technology and Climate Change Corporation (MGTC) – Technical Expert on Developing Instrument for Green Practices Guideline

### **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.

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## REGISTRATION FORM

**VIRTUAL HALF DAY COURSE ON  
ESG ESSENTIALS FOR ENGINEERS IN THE MINERAL EXTRACTION SECTOR  
25 MAY 2024 (SATURDAY)  
Closing Date : 4 May 2024**

No	Name(s)	Email Address	IEM Membership No.	Grade	Fee (RM)
<b>SUB TOTAL</b>					
<b>+SST 8%</b>					
<b>Total Payable</b>					

### 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

**Photocopies are acceptable**