WEBINAR TALK ON

WHEN ENGINEERING SYSTEMS FAIL, HOW AIRCRAFT ENGINEERS MUST THINK UNDER CRISIS PRESSURE

Organised By :
Mechanical Engineering Technical Division, IEM

DATE
28TH FEB 2026, SATURDAY

TIME
10:00AM – 12:00PM

VIRTUAL PLATFORM
ZOOM

The Institution of Engineers, Malaysia

BEM APPROVED CPD: 2 HOURS
CPD REF.NO.: IEM26/HQ/023/T (W)

Speaker

Ir. Dr. Liew Chee Leong (Ricky)
METD Chairman

Learning Outcomes

Participants will be able to:

- Recognise early technical warning signals
- Mobilise and lead technical crisis teams
- Apply disciplined crisis decision logic
- Strengthen system level technical judgment
- Navigate escalation and regulatory interfaces
- Protect professional accountability
- Design governance structures that prevent recurrence

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Registration Fees
- **Student Member: Free**
- **IEM Member: RM15.00**
- **Non-Member: RM70.00**

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Topic: WHEN ENGINEERING SYSTEMS FAIL, How Aircraft Engineers Must Think Under Crisis Pressure

Because real crises are never solved by manuals alone.
In real operations, engineering crises are shaped by incomplete data, time pressure, regulatory exposure, commercial demands and human judgment. When systems deviate beyond procedures, the engineer becomes the primary safety barrier and must take the lead in mobilising the crisis response team.
This webinar draws from a real AOG (Aircraft Operationally Grounded) case involving a Boeing B737 aircraft in a foreign country and exposes how layered technical, organisational and regulatory constraints converge into high-risk decision environments. It reveals why strong technical competencies, disciplined system thinking and structured crisis team mobilisation are critical in separating safe recovery from silent escalation.
Participants will gain practical crisis decision frameworks, governance insights and professional accountability tools to guide crisis teams, control escalation pathways and prevent small technical anomalies from becoming public failures.

About This Webinar

Engineering crises do not fail loudly. They fail quietly through layered decision erosion.
This session takes participants into the real decision environment faced during a Boeing B737 AOG crisis in foreign country. It demonstrates how engineers must step forward to mobilise crisis teams, impose disciplined decision logic and act as the primary safety boundary when manuals no longer provide clear answers.
Participants will learn how to structure crisis command chains, recognise early warning signals, apply system level technical judgment and design governance frameworks that protect safety, compliance and professional accountability

Speakers Biodata

Ir. Dr. Liew Chee Leong (Ricky) is a licensed aircraft engineer with more than 37 years of hands-on experience in aircraft maintenance, technical operations and engineering governance. He has served with major aviation organisations including Malaysia Airlines, KLM Royal Dutch Airlines and Eva Airways Corporation, managing complex technical projects and crisis situations across international jurisdictions.
Ir. Dr. Liew is currently the Head of Engineering and Accountable Manager of a CAAM 145 Approved Maintenance Organisation, overseeing airworthiness compliance, technical decision making and operational risk management. He is a registered Professional Engineer with the Board of Engineers Malaysia and an active corporate member of IEM.
Throughout his career he has led multiple aircraft recovery missions and high-pressure AOG events, applying disciplined engineering judgment and structured crisis team leadership. His professional focus centres on strengthening technical competencies, governance systems and ethical responsibility among engineers to ensure safety, reliability and public confidence in engineering practice.