

1 DAY SEMINAR ON MECHANICAL EQUIPMENT REPAIR FUNDAMENTALS TRAINING SERIES (MERF SERIES) - MODULE 1 - FUNDAMENTAL OF MECHANICAL TOOLS & WORKSHOP PRACTICES

Organised by :
Mechanical Engineering Technical Division, IEM

BEM Approved CPD Hours: 7 Ref No. : IEM25/HQ/620/S

Seminar Details



**28TH FEB 2026,
SATURDAY**



9AM - 5PM



METD ROOM

2nd Floor, Wisma IEM
Petaling Jaya

Targets Participant !

**Engineering Technician,
Engineering Technologist,
Engineers and others.**

Speaker



Ir. Soh Wee Chong

Registration Fees (to include 8% SST)	RM
IEM Member/Graduate	400
Non Member	800

Upcoming Modules !

**Sign up for all 6
sessions and enjoy 1
session FREE.**

28TH MAR 2026

**Module 2 – Pumps, Valves &
Fluid Handling Equipment**

28TH APR 2026

**Module 3 – Practical
Troubleshooting & Fault
Analysis**

16TH MAY 2026

**Module 4 – Bearings, Shafts &
Lubrication Practices**

20TH JUN 2026

**Module 5 – Fasteners, Joints &
Mechanical Assemblies**

18TH JULY 2026

**Module 6 – Gear Systems, Belt
Drives & Power Transmission**

Email to roselein@iem.org.my for enquiries

Time	Programme
8.30am	Registration Start
9.00am	Opening Remark by METD Chairman Ir. Dr. Ricky Liew Chee Leong
9.05am	Introduction of Speaker: Ir. Soh Wee Chong
9.10am	1st Session - Module 1 – Fundamentals of Mechanical Tools & Workshop Practices
10.15am	Tea Break
10.30am	Continue - Module 1 – Fundamentals of Mechanical Tools & Workshop Practices
12.45pm	Q & A Session
1.00pm	Lunch
2.00pm	Session 2 - Precision measuring instruments (vernier caliper, micrometer, dial gauge)
3.30pm	Tea Break
3.45pm	Session 3 - Workshop safety and housekeeping practices
5.15pm	Q & A Session
5.30pm	End of Module 1

Synopsis

The Mechanical Equipment Repair Fundamentals (MERF) Series is designed to provide participants with essential knowledge and practical skills in maintaining, repairing and enhancing reliability of mechanical systems. Covering core principles of equipment operation, troubleshooting techniques, and IMRO strategies, the series emphasizes hands-on learning, safe and good overhauling and repair practices, avoiding human induced machine failures. Participants will gain insights into common mechanical components, diagnostic methods, repairs and component recovery techniques and repair tools, thus enabling them to identify faults and restore equipment efficiency effectively. By bridging theory with real-world applications, the MERF Series equips technicians, engineers, and operators with the confidence to minimize downtime, extend equipment lifespan, and ensure reliable performance across industrial settings.

Speaker's Biodata

Ir. Soh Wee Chong is a retired Professional Engineer and founder of Francserve (M) Sdn Bhd. A graduate of the University of Malaya in 1979, he has over four decades of experience in mechanical maintenance engineering, plant equipment repair, and reliability improvement. Known for his innovative approach, he has designed jigs, fixtures, special tools, and machines to address chronic equipment failures. Despite semi-retirement, he continues to contribute as a technical advisor, trainer, and mentor, sharing practical knowledge gained from extensive industrial plant repair and overhaul projects. His expertise is widely sought by plant owners and operators, especially during outages, where his solutions enhance maintainability and operational efficiency. Passionate about knowledge-sharing, Ir. Soh remains active in guiding engineers and organizations toward sustainable practices in mechanical equipment management.