



INTERNAL COMBUSTION ENGINE FOR ENGINEER & DRIVER



1 - 3 DECEMBER 2025 | 8:30AM - 4:30PM

FMM SARAWAK BRANCH, LEVEL 5 (SOUTH), WISMA STA, 26, JALAN DATUK ABANG ABDUL RAHIM, 93450 KUCHING, SARAWAK

FEE

FMM MEMBER:
RM1728.00/pax

NON - MEMBER:
RM2268.00/pax

(Inclusive of 8% service tax)

OVERVIEW

This course develops competence in Internal Combustion Engine (ICE) systems who are interested in operation and maintenance of the engines. This course covers the fundamentals of how the design and operation of internal combustion engines affect their performance, efficiency, fuel requirements, and environmental impact. Topics include fluid flow, thermodynamics, combustion, heat transfer and friction phenomena, and fuel properties, with reference to engine power, efficiency, and emissions. Participants will examine the design features and operating characteristics of different types of internal combustion engines: spark-ignition, diesel, stratified-charge, and mixed-cycle engines.

OBJECTIVES

- Differentiate between FMA & OSHA as the requirement act of ICE, maintenance, repair and inspection
- Describe the fundamentals and types of ICE
- Identify all ICE's main and support components
- Proper operate the boiler with safe manner by using startup & shutdown sequence referring to ICE's maker documents
- Define of ICE's mandatory inspection and organize the preparation check list prior to inspection

TARGET PARTICIPANTS

Practicing Boiler Operators, Technicians and Mill Engineers, Shift Charge Engineers, Junior Engineers Technicians and those who are interested to upgrade their career in Steam Plant Operations. This could range from small process plants to major utilities. Industry may include factories, hotels, hospitals, plantations and etc

FACILITATOR

Mohd Fauzi bin Mat Rasid

is a freelance Trainer for Steam and Internal combustion Engine course as well as Power Plant process and control. He is certified Internal Combustion Engine Engineer Grade I and Steam Engineer Grade I (DOSH) and with over 20 years hands on operation experience, he is able to conduct training based on the real on the job practise beside purely theories. He develops his own training materials and make it available and excellent in describing ready-made hands out online to ensure participants will have the opportunity to learn continuously in the long run. A part from his professional experiences, he is also appointed as Visiting Engineer for various Diesel Engine, Gas Engine and industrial Boiler. He is also a Visiting Engineer from 2017 until present.

- Responsible for Operation and Maintenance as Visiting Engineer (Steam) role of Waste Heat Boiler (YOSHIMINE 450 WD) & Fire tube Package Boiler MECHMAR
- Responsible for Operation and Maintenance as Visiting Engineer (ICE) role of Various Diesel and Gas Engine such as GE JENBACHER 625KW, 850KW, 1200KW & 1500KW & CATERPILLAR 250KW & 580KW and CUMMINS 250KW

OUTLINE

- Act & Regulation for Steam Boiler
- Fundamental of ICE
- Piston Engine & Gas Turbine Main Components
- Terminology For Control 7 Function in ICE
- ICE Operation
- ICE System
- Fuel & Combustion
- ICE Maintenance & Repair
- Engine Room Management
- Responsibility
- Material
- Non-Destructive Test

For further details, please contact us: Evance Sinel, Aleesa, Farrez Teh



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FMM SARAWAK OFFICE, WISMA STA, LEVEL 5, KUCHING, SARAWAK

The Manager,

FMM Institute (475427W_Sarawak),

Tel: 082-332784 Fax: 082-332785 ,

Email: evance@fmm.org.my / fmmsarawak@fmm.org.my

Dear Sir/Madam,

Please register the following participant (s) for the above programme:

(To be completed in BLOCK LETTERS)

PLEASE TICK ☒ ACCORDINGLY:

PSMB Scheme:

☐ HRD Corp Claimable Courses

☐ Non Contributor

FEES:

☐ **FMM Member: RM 1728.00/pax**
(Inclusive of 8% Service Tax)

☐ **Non Member: RM 2268.00/pax**
(Inclusive of 8% Service Tax)

No	Name	Designation	Email	Nationality	IC No
1.					
2.					

(If space is insufficient, please attach a separate list)

Registration is on a first-come first-served basis. Completed registration should be forwarded to FMM Institute before **November 24, 2025**. Completed registration form online, faxed, mailed or e-mailed to FMM Institute, would be deemed as confirmed.

Those who register but do not turn up for the programme will be billed accordingly. There will be no refund for cancellation within 2 days prior to the programme, 50% refund for cancellation between 3 - 6 days and full refund for cancellation 7 days prior to the programme. However, replacement will be accepted at no additional cost. FMM Institute reserves the right to cancel or reschedule the programme and all efforts will be taken to inform participants of any changes. Should the programme be cancelled or postponed, FMM Institute is not responsible for covering airfare, hotel or other travel costs incurred by the participants.

We hereby confirmed that (please tick accordingly):

☐ We will be claiming from **HRD Corp** and full payment would made to FMM Institute in the event that no disbursement from HRD Corp under any circumstances.

☐ We will **NOT BE CLAIMING** from HRD Corp. Payment will be made to account payee **FMM Institute** by cheque or bank transfer to **Maybank Account No. 511083-105884**

Submitted by:

Name:	Designation:	Email
Tel:	Fax:	Mobile Number:
Company:	FMM Membership No:	My Corporate Identity No.
Adress:	Company Stamp & Signature	Date: