



**FMM INSTITUTE**

(C10626805080/ 199901000527/ 475427-W)

*Centre for Professional Development*



# BOILER OPERATION & MAINTENANCE

This programme provides comprehensive knowledge on the principles, components, and safe operation of industrial steam boilers. Participants will learn how boilers function, understand key construction differences, and apply correct procedures for start-up, shutdown, and routine monitoring. The course also covers essential boiler terminology, safety and protection systems, alarm handling, preventive maintenance practices, and early detection of mechanical issues. In addition, participants will gain a clear understanding of statutory requirements, including inspection intervals, logbook compliance, and proper lay-up methods during planned shutdowns. This training ensures participants are well-equipped to support safe, efficient, and compliant boiler operations.

*Please note that this programme is not suitable for participants who plan to sit for the JKKP (DOSH) boiler examination, as it does not cover the depth, syllabus, or requirements needed for JKKP certification preparation.*

## TRAGET GROUP

This course is designed for boiler operators, maintenance technicians, plant supervisors, engine drivers, facility personnel, and anyone involved in operating, monitoring, or maintaining industrial steam boilers.

## MEDIUM OF INSTRUCTION

Bahasa Melayu and English

## ADMINISTRATIVE DETAILS

Date : **May 21-22, 2026 (Thu - Fri)**

Time : **2 Days (9:00 am - 5:00 pm)**

Venue : **FMM Institute, Johor Branch  
No. 1 & 3, Jalan Kencana  
Mas 1/1, Tebrau Business Park III, 81100  
Johor Bahru, JOHOR**

Fees : **RM 1,215.00 (FMM Member)  
RM 1,350.00 (Non-member)**  
The fee-inclusive Service Tax at 8%  
(SST No: W10-1901-32000105)

Closing Date : **May 13, 2026**

Training Provider : **FMM Institute Johor  
MYCOID: 475427W\_JOHOR**

Please fax or mail the registration form to: [astri@fmm.org.my](mailto:astri@fmm.org.my) (Pn. Astri) / [sabrina@fmm.org.my](mailto:sabrina@fmm.org.my) (Ms Sabrina) / [nur\\_ain@fmm.org.my](mailto:nur_ain@fmm.org.my) (Pn. Ain)  
Tel : 07 - 357 7613 Fax : 07 - 357 7618



# BOILER OPERATION & MAINTENANCE

## COURSES CONTENT

### Module 1 - Introduction to Steam Boiler

- Core Function
- Types Steam Boiler
- Terminology
- The Boiler Cycle

### Module 2 - Steam Boiler Operation

- Pre-Start Checks
- Start-Up Procedure
- Parameter Monitoring
- Load Changes
- Normal Shutdown

### Module 3 - Steam Boiler Protection

- Safety Interlocks
- Low Water Alarm & Cut-Off (LWCO)
- Pressure Relief
- Flame Failure Protection
- Responding to Alarms

### Module 4 - Steam Boiler Essential Preventive Maintenance

- Routine System Checks
- Gauges & Glass
- Combustion System PM
- Soot Blowing & Cleaning

### Module 5 - Steam Boiler Inspection & Lay up

- Shutdown Preparation
- Internal / External Inspection
- Lay-up Procedures
- Statutory Compliance

### Module 6 - Boiler Water Treatment & Chemical Management

- The Problem
- Routine Testing
- Blowdown Strategy
- Chemical Dosing
- Feedwater Quality

## FACILITATOR

**Mohd Fauzi Mat Rasid** was a certified Internal Combustion Engine Engineer Grade I and Steam Engineer Grade II (DOSH) and graduated with Diploma in Mechanical Engineering from Ungku Omar Polytechnic of Malaysia. With over than 19 years hands on operation of industrial Boiler and Internal combustion experience, Mr Mohd Fauzi conducts training based on the real on the job practice beside purely theories. A motivated and passion trainer who will make sure the participants are trained and learn continuously in long run.

## OBJECTIVE

- Understand the purpose, principles, and main types of steam boilers.
- Use essential boiler terminology for accurate logging and documentation.
- Perform safe boiler start-up, operation, and shutdown procedures.
- Monitor and record critical operating parameters.
- Understand key control loops, safety systems, and protection devices.
- Respond to alarms and carry out required safety tests (e.g., Low Water Cut-Off).
- Perform routine preventive maintenance and identify early signs of faults.
- Carry out minor maintenance tasks and prepare boilers for statutory inspections.
- Apply correct Wet/Dry Lay-up procedures and comply with legal requirements.



# BOILER OPERATION & MAINTENANCE

MAY 21 - 22, 2026 | VENUE : FMM JOHOR

FMM Institute (199901000527/ 475427-W)

Pn. Astri / Ms Sabrina / Pn Ain

Email : [astri@fmm.org.my](mailto:astri@fmm.org.my) / [sabrina@fmm.org.my](mailto:sabrina@fmm.org.my) / [nur\\_ain@fmm.org.my](mailto:nur_ain@fmm.org.my)

Tel: **07-357 7613** Fax: **07-357 7618**

Dear Madam,

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

(To be completed in BLOCK LETTERS)

Please tick ✓ accordingly:

Fees:

FMM Member/ Self-Sponsor: RM 1,215.00/pax  
(inclusive of 8% Service Tax (SST No: W10-1901-32000105))

Non Member: RM 1,350.00/pax  
(inclusive of 8% Service Tax (SST No: W10-1901-32000105))

1.\*Name:

\*IC No:

Nationality:

\*Designation:

\*Email:

\*Mobile No.:

2.\*Name:

\*IC No:

Nationality:

\*Designation:

\*Email:

\*Mobile No.:

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

### Disclaimer

Registration is on a first-come first-served basis. All cancellations must be made in writing. There will be no charge for cancellation received 14 or more working days before the start of the training. Cancellation received 7 – 14 working days before the start of the training is subject to a cancellation fee of 50% of the course fees. Cancellation received 6 working days and below before the start of the training is subject to a cancellation fee of 100% of the course fees. If the participant **fails to attend** the physical class **less than 75% attendance, the entire class charge must be paid**. However, replacement can be accepted at no additional cost. The FMM Institute reserves the right to change the speaker, reschedule or cancel the class and all efforts will be taken to inform participants of the changes.

**We hereby confirmed that (please tick ✓ accordingly):**

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

I (self-sponsor) / We will **NOT BE CLAIMING under SBL-Khas Scheme**. Payment will be made to the account payee **FMM Institute** by cheque or bank transfer to **Maybank Account No. 501280056601**.

Tin No. : C10626805080

ROC (New) No. : 199901000527

SST No. : W10-1901-32000105

Submitted by:

Name:

Email:

Designation:

Tel No:

Moblie No:

Company:

Address:

Tin No. :  
(Company Tax Number)

Registration Company  
No. (New)

SST No  
(If Applicable):

Company Stamp & Signature:

Date: