



FMM INSTITUTE

(C10626805080/ 199901000527/ 475427-W)

Centre for Professional Development



BOILER OPERATOR ESSENTIALS: FUNDAMENTALS, SAFETY, AND CONTROL

This course provides a comprehensive foundation for safe steam boiler operation. Participants will learn the purpose and working principles of boilers, identify key components and safety devices, and differentiate between various boiler types. The training covers safe start-up and shutdown procedures, basic control monitoring, troubleshooting common operating issues, and interpreting alarms. It also highlights essential water treatment practices, including feedwater contaminants, testing, and blowdown adjustments to ensure efficient and reliable boiler performance.

TRAGET GROUP

This training is designed for individuals who wish to gain basic knowledge and understanding of boiler operation, components, safety, and essential practices. It is intended for beginners or those seeking general competency to support their work environment.

ADMINISTRATIVE DETAILS

Date : **January 8 - 9, 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 : **December 29, 2025**

Training Provider : **FMM Institute Johor
MYCOID: 475427W_JOHOR**

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

MEDIUM OF INSTRUCTION

Bahasa Melayu and English

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



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COURSES CONTENT

Module 1 - Introduction to Steam Boiler

- Boiler Fundamentals & Purpose
- Basic Principles
- Types of Boiler
- Energy Cycle

Module 2 - Steam Boiler Components & Parts

- Boiler Shell / Drum
- Heat Transfer Surfaces
- Combustion System
- Fittings & Mountings

Module 3 - Steam Boiler Start Up

- Pre-Start Checklist
- Safety Interlocks Check
- Purge Cycle
- Light-Off Sequence

Module 4 - Steam Boiler Control

- Combustion Control
- Water Level Control
- Steam Pressure Control

Module 5 - Steam Boiler Shutdown & Protection

- Normal Shutdown
- Emergency Shutdown
- Protection Devices
- Troubleshooting

Module 6 - Steam Boiler Shutdown & Protection

- Contaminant Effects
- External Treatment
- Internal Treatment
- Blowdown Management
- Water Testing

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 boiler purpose and operation
- Identify boiler types and terminology
- Know key components and their functions
- Recognize safety fittings and devices
- Perform pre-start checks and safe start-up
- Read control panels and alarms
- Conduct safe shutdown
- Troubleshoot common issues
- Understand feedwater treatment and blowdown

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JANUARY 8 - 9, 2026| VENUE : FMM JOHOR**FMM Institute** (199901000527/ 475427-W)**Pn. Astri / Ms Sabrina / Pn Ain**Email : **astri@fmm.org.my/ sabrina@fmm.org.my /
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:**