

FMM CERTIFICATE IN BOILERMAN GRADE 1 & 2

SBL-KHAS CLAIMABLE

CERTIFICATE PROGRAM

The FMM Certificate in Boilerman Grade 1 & 2 is specially developed to upgrade the Theoretical Operational Skills of the current workforce in handling Steam Boilers in various sectors. The Certificate programme will provide the knowledge to upgrade the skills of Boiler Supervisors, Operators, Assistants and Apprentice on matters relating Operations, Mounting & Fittings, Inspections and Maintenance of Boilers at the workplace.

TRAINING OBJECTIVES

- Upgrade the knowledge skills of current personnel handling and operating Steam Boiler and further upgrade the skills of Boilerman Grade 2 Certificate holders.
- Establish a level of knowledge about boilers and the theoretical and practical skills to efficiently manage and handle steam boilers towards better work performance.
- Create opportunities for career advancement and development within the organization; and
- Prepare participants to sit for the Boilerman Examination conducted by Jabatan Keselamatan dan Kesihatan Pekerja (JKKP/ DOSH).



SCAN FOR BROCHURE

INQUIRY & BOOKING: MR AZIM/MS ZAI

+604-440 3273/3628

 WWW.FMM.ORG.MY

 FMMKEDAHPERLIS@FMM.ORG.MY



SAVE THE DATE

**9, 10, 11 & 12
DECEMBER 2025**

TIME:

9.00AM - 5.00PM

VENUE :

PARK AVENUE HOTEL, SUNGAI PETANI

PARTICIPANT FEES:

FMM MEMBER :RM 2,484.00 PER PARTICIPANT
NON-MEMBER:RM 2,916.00 PER PARTICIPANT

(Fees inclusive of 8% SST, Certificate, course materials, refreshments and lunch.)

**REGISTRATION
CLOSED:
2 DECEMBER 2025**

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TARGET AUDIENCE

At least 2 years of working experience in assisting Steam Engineer or Steam Boiler Attendant or at least 3 years working experience as an Apprentice or Journeyman Fitter in a Steam Plant or Engineering Workshop

LEARNING OUTCOMES

Upon Completion of the training program, the participants will be able to:

1. Differentiate between FMA & OSHA as the requirement act of Boiler operation, maintenance, repair and inspection.
2. Describe the fundamentals and types of steam boiler.
3. Properly operate the boiler with safe manner by using startup & shutdown sequence referring to boiler's maker documents.
4. Identify all boiler essential fittings and its requirement as per act and regulation.
5. Define of Boiler mandatory inspection and organize the preparation check list prior to inspection.
6. Coordinate and execute Boiler Test in safe manner.
7. Organize and practice Boiler maintenance philosophy in boiler maintenance program.
8. Define the importance of Boiler house and its requirements.
9. Classify Boiler instrumentation and control in boiler operation.
10. Explain and compare the function, types and concern of water treatment plant system in boiler operation.
11. Define Boiler tubes, drum, furnace and burner construction.

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COURSE OUTLINE

MODULE 1 – ACT & REGULATION FOR STEAM BOILER

- Factory & Machinery Act 1967 (ACT 139)
- OCCUPATIONAL SAFETY & HEALTH ACT (OSHA) 1994 (ACT 514)

MODULE 2 – TYPES STEAM BOILER

- Steam Boiler fundamentals
- Steam Boiler Type

MODULE 3 - STEAM BOILER OPERATION

- Steam Boiler Start up
- Steam Boiler Shutdown
- Steam Boiler Emergency Shutdown
- Steam Boiler – preparing for inspection

MODULE 4 – STEAM BOILER ESSENTIAL FITTINGS

- Essential fittings
- Essential Fittings requirement

MODULE 5 – PREPARATION FOR MANDATORY INSPECTION

- Types Boiler Inspection
- Boiler Inspection

MODULE 6 – BOILER TESTS

- Hydrostatic Test
- Steam Test
- Safety Valve Hot Test
- Water Gauge Test

MODULE 7 – BOILER MAINTENANCE

- Maintenance philosophy
- Predictive Maintenance
- Preventive Maintenance
- Corrective Maintenance

MODULE 8 – BOILER HOUSE REQUIREMENT

- Change of shift
- Boiler House requirement

MODULE 9 – BOILER INSTRUMENTATION & CONTROL

- Boiler Instrumentation
- Level Control
- Temperature Control
- Pressure Control

MODULE 10 – WATER TREATMENT SYSTEM

- Type of water Treatment
- External Treatment
- Internal treatment

MODULE 11 – BOILER CONSTRUCTION

- Tube & Drum
- Internal & External Furnace
- Burner

MODULE 12 – FUEL & COMBUSTION

- Type of fuel
- Combustion in Boiler

MODULE 13 – STEAM TURBINE

- Steam Turbine fundamentals
- Type of steam Turbine
- Steam Turbine operation

MODULE 14 – BOILER ACCESSORIES

- Economizer
- Superheater
- Air Pre heater

MODULE 15 – ORAL REVISION.

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FMM INSTITUTE KEDAH / PERLIS BRANCH

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REGISTRATION FORM

FMM CERTIFICATE IN BOILERMAN GRADE 1 & 2

Park Avenue Hotel,
Sungai Petani



9:00 am - 5:00 pm



9,10,11 & 12 December 2025



REGISTRATION / PAYMENT

- Upon Faxing / Mailing the completed Registration Form to FMM Institute, Kedah/Perlis, you are deemed to have read and accepted the terms and conditions.
- The course would also be deemed as confirmed unless informed otherwise.
- Will be based on a First-Come-First-Served basis.

DISCLAIMER

The FMM Institute reserves the right to change the facilitator, date and to vary/cancel the course should unavoidable circumstances arise.

All efforts will be taken to inform participants of the changes.

ENQUIRIES

KEDAH/PERLIS : Mr. Azim – azim@fmm.org.my
: Ms. Rozainiza – rozainiza@fmm.org.my

PAYMENT METHODS

Payee name: **FMM INSTITUTE**

- Cheque or bank draft crossed Account Payee only.
- Bank-in payment: to e-mail or fax deposit slip to FMM for issuance of Official Receipt.
Bank Name: **Maybank Bank Berhad**
Account no : **5521-0761-5611**
- Please write the event name on the reverse of the cheque or on the deposit slip.
- For SBL Khas Scheme, an Attendance of 100% is a MUST; in any case, employers will be billed in full.

REPLACEMENT / CANCELLATION / NO-SHOW POLICY

Replacement at no additional cost. FMM reserve the right to cancel or reschedule the programme. All efforts will be taken to inform participants of the changes. Participants who did not turn-up at the events are liable for the full payment.

Cancellation must be in writing to FMM. If cancellation is received:

- 7 days before the seminar - no payment charged
- 3-6 days before the seminar - 50% payment charged
- Less than 3 days - full payment will be charged
- cancellation and refund is not allowed

Attn: Kedah/Perlis Branch PIC

Please register the following participants(s):-

(Please attach separate list if space is insufficient / To be completed in BLOCK LETTERS)

No	Name	Designation	I/C Number	Email	H/P No.
1					
2.					
3.					
4.					

Please Tick appropriate box:

☐ Vegetarian food for _____ pax.

We hereby confirm that:

☐ We will be claiming under HRD Corp-Claimable courses (SBL - Khas) but full payment would be made to Federation of Malaysian Manufacturers in the event that no disbursement from HRD CORP under any circumstances.

☐ We are not claiming training grant from HRD Corp. Enclosed cheque / bank draft, No _____ for RM _____ being payment made for _____ participant(s) made in favour of Federation of Malaysian Manufacturers.

Submitted by:

Name : _____ Designation: _____

Company: _____ FMM Membership No. : _____

Address: _____

Email: _____ Tel: _____ Fax: _____

Declaration :

I hereby declare that the information provided is correct and complete.

☐ FMM/GS1 MEMBER ☐ NON MEMBER