



**FMM Institute** (475427-W)  
Perak

**Certificate  
Course**

# CERTIFICATE IN BOILERMAN

JULY 18, AUGUST 1, 15 & 22, 2021  
( 35<sup>TH</sup>. BATCH )

**HRDF : SBL-Khas SCHEME**  
(No Upfront Payment Required)

**Self-Sponsored : PAY ONLY RM1,484**  
(Inclusive of Service Tax @ 6%)

## Requirements .....

Based on latest **Amendments to Factory & Machinery (Person-in-Charge) Regulations 2014**, the requirements are :

1. **Competent Boilerman is determined based on Size of Steam Boilers :**

Boiler Heating Surface	
≤ 100 sq.m.	Grade 2
> 100 sq.m.	Grade 1

2. **No. of Boilerman required :**

Each Boilerman is only allowed to handle 2 Steam Boilers regardless of size during each Shift.

## Objectives .....

The course is designed to meet the following objectives :

- ▶ upgrade the knowledge and skills of current personnel's handling and operating Steam Boilers and to further upgrade the skills of Boilerman Grade 2 Certificate holders
- ▶ establish a level of sound theoretical and practical knowledge and skills pertaining to Boilers in order to efficiently manage and handle steam boilers towards better work performance
- ▶ create opportunities for career advancement, and
- ▶ prepare participants to sit for the Boilerman Grade 2 or Grade 1 Examinations conducted by Jabatan Keselamatan Dan Kesihatan (JKKP/DOSH).

## COURSE CONTENTS

1. **Acts and Regulations Related to Boilers**
  - Factory and Machinery Act, 1967 (Act 139)
  - OSH Act, 1994 (Act 514)
2. **Types of Steam Boilers**
  - Fire and Water-Tube Boilers
3. **Boiler Operations**
  - Piping Systems
  - Start-up and Shut-Down procedures
4. **Essential Fitting and Mountings**
  - Various Fittings and Mountings
  - Functions of each Fittings and Mountings
5. **Preparation for Periodical Inspection**
  - Preparation of Boiler for Inspection by DOSH
6. **Various Test Related to Steam Boilers**
  - Hydrostatics, Steam and NDT Test

7. **Boiler House / Room Requirements**
  - Responsibilities of Boilerman
  - Serious Misconduct
8. **Boiler Construction**
  - Fabrication process
  - Plain Tube / Stay Tube / Stay Bar / Gusset Stay
9. **Boiler Water Treatment**
  - Purpose of Treatment
  - Internal and External Treatment
10. **Boiler Maintenance**
  - Regular Preventive Maintenance - Fire and Water sides
  - Boiler Storage
11. **Boiler Accessories**
  - Functions of various Boiler Accessories
12. **Trial Oral Examination**

### Course Structure

- 1) Contact Days : **4 days** (Scheduled Sundays)
- 2) Contact Hours : **28 hours**
- 3) Time : **9.00 a.m. – 5.00 p.m.**
- 4) Medium of Instruction : Bahasa Melayu

### Time Table

- Day 1 : July 18, 2021** (Sunday)  
**Day 2 : August 1, 2021** (Sunday)  
**Day 3 : August 15, 2021** (Sunday)  
**Day 4 : August 22, 2021** (Sunday)

## ENTRY REQUIREMENTS

A candidate **must** have the following entry requirements to **register** for this course and **sit** for the **Examinations** :

<b>Grade 2</b>	<ul style="list-style-type: none"> <li>a <b>Malaysian citizen</b> with <b>at least 21 years of age</b></li> <li><b>at least 2 years</b> working experience as a Boiler Asst. / Attendant (<b>directly handling Boilers</b>) <b>OR</b> <b>at least 3 years</b> working experience as an Apprentice / Fitter (<b>indirectly handling Boilers</b>).</li> </ul>
<b>Grade 1</b>	<ul style="list-style-type: none"> <li>holds a <b>Boilerman Grade 2 Certificate</b></li> <li>as a Competent Boilerman Grade 2 Certificate holder, he has <b>at least 18 months</b> working experience in <b>handling Steam Boilers having a heating surface of NOT less than 47 sq. m.</b></li> </ul>

## CERTIFICATION

- Participants are required to attend all scheduled classes of the course. There is a minimum requirement of **80 % attendance** before participants can be considered for the **Certificate of Attendance** issued by FMM Institute Perak.
- The **Certificate of Competency** as a Boilerman Grade 2 or Grade 1 will be issued by JKPP only to those participants who **PASS** the **Boilerman Grade 2** or **Grade 1 Examination** respectively.

## EXAMINATION

The **Examination** for the Certificate of Competency as a Boilerman Grade 2 and Grade 1 will be **conducted** by **Jabatan Keselamatan dan Kesihatan Pekerjaan** (JKPP / DOSH) after the completion of the course. The Examination will consist of an Oral Examination.

## CONTACT DETAILS

Mr. Mahinder / Ms Nicole / Puan Eda  
Tel No. : 05-5488660 Fax : 05-5488221  
Email : [fmmperak@fmm.org.my](mailto:fmmperak@fmm.org.my)



**Closing Date :**  
**July 9, 2021**

## ADMINISTRATIVE DETAILS

Venue : **FMM Institute Perak**

No. 1, Lorong Raja DiHilir, 30350 Ipoh, Perak

Fees : **FMM Members – RM 1,484.00 per participant**  
**Non-Members – RM 1,908.00 per participant**  
**Self-Sponsored – RM 1,484.00 per participant**  
(For Self Sponsored : Installment – RM742 x 2)

- Fee stated above is Inclusive of Service Tax @ 6%
- Fee **INCLUDES** Course Materials, Refreshment and Certificate of Attendance. However, it **EXCLUDES Lunch** and **DOSH Examination Fee**.

### Registration :

- Upon **Faxing / Mailing** the completed **Registration Form** to FMM institute Perak, you are **deemed** to have read and **accepted** the terms and conditions. The course would also be **deemed** as **confirmed** unless informed otherwise.

### Payment :

- For **SBL Khas Scheme**, an **Attendance of 100%** is a **MUST**, in any case, **employers will be billed** in full.
- Cheques must be made in favour of '**FMM Institute**'.
- FMM Institute SST Registration No: **W10-1901-32000105**

### Cancellation / Discontinuation :

- Must be in Writing with Reasons
- 7 days before course starts – **No payment charged**
- 3 – 6 days before course starts – **50% payment charged**
- < 3 days before course starts – **Full payment charged**
- Participants who did not turn-up will be charged full payment.**
- Replacements can be accepted at no additional cost.
- For **discontinuation**, **payment made will be forfeited.**

### Disclaimer :

The FMM Perak **reserves the right** to change the facilitator, date and to vary / cancel the programme should unavoidable circumstances arise. All efforts will be taken to inform participants of the changes.

## TRAINER

Experience and Specialist in Steam Engine Driver (Boilerman).  
Kindly contact FMM Institute for Trainer Profile.

## REGISTRATION FORM

FMM Institute Perak

Fax : 05-5488221

(Attn: Mr. Mahinder / Puan Edarozine)

Dear Sir,

Please register the following participants for the above Training :

Name		Grade (please ✓)	
		1	
Designation		2	
IC No		Age	
Qualification			
Experience	years	HP No	

Name		Grade (please ✓)	
		1	
Designation		2	
IC No		Age	
Qualification			
Experience	years	HP No	

(Please attach a separate list if space is insufficient)

Submitted by :

Name :	
Designation:	
Company :	
Address :	
(O / H)	
Tel No.:	Fax No.:
M/ship No.:	Email :

We hereby confirm that :

- We **will be claiming** under **SBL-Khas scheme** and **full payment would be made to FMM Institute** in the event that **no disbursement from HRDF** under any circumstances.
- NON HRDF Contributor**. Enclosed cheque/bank draft No \_\_\_\_\_ / bank in slip being payment for \_\_\_\_\_ participant(s) made in favour of **FMM Institute**.

(Please tick (✓) in the appropriate box)