



# Federation of Malaysian Manufacturers

Wisma FMM, No. 3, Persiaran Dagang, PJU 9, Bandar Sri Damansara, 52200 Kuala Lumpur  
Tel: 03-62867200 Fax: 03-62776712 E-mail: [siti\\_nazihah@fmm.org.my](mailto:siti_nazihah@fmm.org.my) / [azrini@fmm.org.my](mailto:azrini@fmm.org.my)

**FREE** for FMM Members... SMEs only  
*\*\* Seats are limited*

## Training Fund Under Minimum Wages 2017 FMM Certificate in Boilerman

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



### COURSE OBJECTIVES

This programme will:-

- Enhance knowledge and upgrade the skills of personnel handling and operating steam Boilers in order to efficiently manage and handle steam boilers towards better work performance
- Create opportunities for career advancement
- Prepare participants to sit for the Boilerman Examinations conducted by Jabatan Keselamatan dan Kesihatan Pekerjaan (JKKP/DOSH)

### WHO SHOULD ATTEND

Eligibility:

- Malaysian owned / majority 60% Malaysian shareholders
- Less than 200 Malaysian full-time employees (Manufacturing)
- Less than 75 Malaysian full-time employees (Services)

### COURSE STRUCTURE

Number of Contact Days: 4 days

Lecture Days : Saturday & Sunday

### ADMINISTRATIVE DETAILS

Date : November 25 , 26, December 9 & 10, 2017

Time : 9.00 am – 5.00 pm

Venue : **FMM Institute**  
2<sup>nd</sup> Floor, Wisma FMM  
No.3, Persiaran Dagang, PJU 9  
Bandar Sri Damansara  
52200 Kuala Lumpur

*Refreshment and Lunch will be provided*

### ENTRY REQUIREMENTS

- Malaysian citizen, no less than 21 years of age
- At least 2 years of working experience as a Steam Engine or Steam Boiler Attendant (directly handling Boiler) or at least 3 years working experience as an Apprentice or Journeyman Fitter in a Steam Plant or Engineering Workshop (indirectly handling of a Boiler)

*Completed registration form, faxed, mailed or e-mailed to FMM Institute would be accepted on first-come first-served basis but will be subject to PSMB approval.*



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Training Fund Under Minimum Wages 2017

## FMM Certificate in Boilerman

### COURSE CONTENTS

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- ❖ Acts and Regulations Related to Boilers
  - Factory and Machinery Act, 1967 (Act 139)
  - OSH Act, 1994 (Act 514)
  
- ❖ Types of Steam Boilers
  - Fire and Water-Tube Boilers
  
- ❖ Boiler Operations –Theory
  - Start-Up, Shut-Down and Blow-Down Procedures
  
- ❖ Essential Fitting and Mountings
  - Various Essential Fittings and Mountings
  - Functions of Each Essential Fittings/Mounting
  
- ❖ Preparation for Mandatory Inspection
  - Preparation and Assistance for Inspection
  
- ❖ Types of Test Related to Boilers
  - Hydrostatic Test, Steam Test and NDT, etc.
  
- ❖ Boiler Maintenance
  - Preventive Maintenance – Fire and Water sides, Fittings and Accessories
  
- ❖ Boiler House/Room Requirements
  - Log Sheets, Log Books, Responsibilities of Boilerman
  
- ❖ Construction of Boilers
  - Methods of Joints i.e. Welded
  - Welding of Shell and Drums, Tube Plate to Shell, Tubes to Tube Plate and Fuel Gas Path
  
- ❖ Water Treatment
  - Internal and External Treatment and Various Test
  
- ❖ Boiler Commissioning
  
- ❖ Boiler Accessories
  - Functions of the Various Boiler Accessories
  
- ❖ Oral Revision



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## TRAINER

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### **G.MOHANA KRISHNAN**

**Mr. Mohana Krishnan** has been lecturing at the marine Engineering Department of Ungku Omar Polytechnic Jalan Raja Musa Mahadi, Ipoh since 1<sup>st</sup> April 1982. Currently he is lecturing on Naval Architecture. Other than the above, he also operates, maintain and conduct practical classes involving the boiler in the workshop.

Mr Mohana has been giving lectures on pressurized Vessel for the past two years and is a course coordinator and trainer for the Certificate in Boilerman for FMM Institute since 1996.

#### Academic Qualifications

1. Master of Science (Thermo-fluids): Universiti Sains Malaysia
2. Bachelor of Engineering in Naval Architecture and Shipbuilding: University of Newcastle upon Tyne, UK
3. Diploma in Mechanical Engineering: University of Technology Malaysia



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## REGISTRATION FORM Training Fund Under Minimum Wages 2017 FMM CERTIFICATE IN BOILERMEN

**Date:** November 25, 26 & December 9, 10, 2017

**Venue:** Wisma FMM, Bandar Sri Damansara

(To be completed in BLOCK LETTERS)

### A. PERSONAL PARTICULARS

Full Name (Mr/Ms) : \_\_\_\_\_ NRIC No. : \_\_\_\_\_

Designation: \_\_\_\_\_ Name of Company : \_\_\_\_\_

Permanent Address : \_\_\_\_\_

Correspondence Address : \_\_\_\_\_  
(if different from permanent address)

Tel No. (H) : \_\_\_\_\_ (O) : \_\_\_\_\_ Fax No. : \_\_\_\_\_

E-mail Address : \_\_\_\_\_ H/P No: \_\_\_\_\_

Gender : \_\_\_\_\_ Nationality : \_\_\_\_\_ Race : \_\_\_\_\_

Academic Qualification: \_\_\_\_\_

### B. SUBMITTED BY

Name : \_\_\_\_\_ Designation : \_\_\_\_\_

Company Name: \_\_\_\_\_

Company Address : \_\_\_\_\_

Tel No. : \_\_\_\_\_ Fax No. : \_\_\_\_\_ E-mail Address : \_\_\_\_\_

FMM Membership No: \_\_\_\_\_ My Corporate Identity No : \_\_\_\_\_

### C. SUPPORTING DOCUMENTS

I enclosed the following supporting documents:

Company Registration (SSM)

Latest KWSP Statement

PSMB / MW / DEC1 / BM1001

### D. DECLARATION

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

Signature : \_\_\_\_\_ Date: \_\_\_\_\_

Name & designation : \_\_\_\_\_

Company Stamp :