

# REGISTRATION FORM

## Certificate in Boilerman (Grade 2 / Grade 1)

Saturday – Sunday \* Commencing May 12, 2012 \* FMM Institute Malacca

FMM Institute Malacca  
D3-4, Plaza Jayamuda,  
Jalan Pelanduk Putih,  
75300 Melaka  
(Fax: 06-283 8090)

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

1 Name \_\_\_\_\_ Designation \_\_\_\_\_  
Nationality \_\_\_\_\_ IC No. \_\_\_\_\_  
2 Name \_\_\_\_\_ Designation \_\_\_\_\_  
Nationality \_\_\_\_\_ IC No. \_\_\_\_\_

*(If space is insufficient please attach separate list)*

Enclosed cheque/bank draft No \_\_\_\_\_ for RM \_\_\_\_\_  
being payment for \_\_\_\_\_ participant(s) made in favour of the

“FMM Institute”

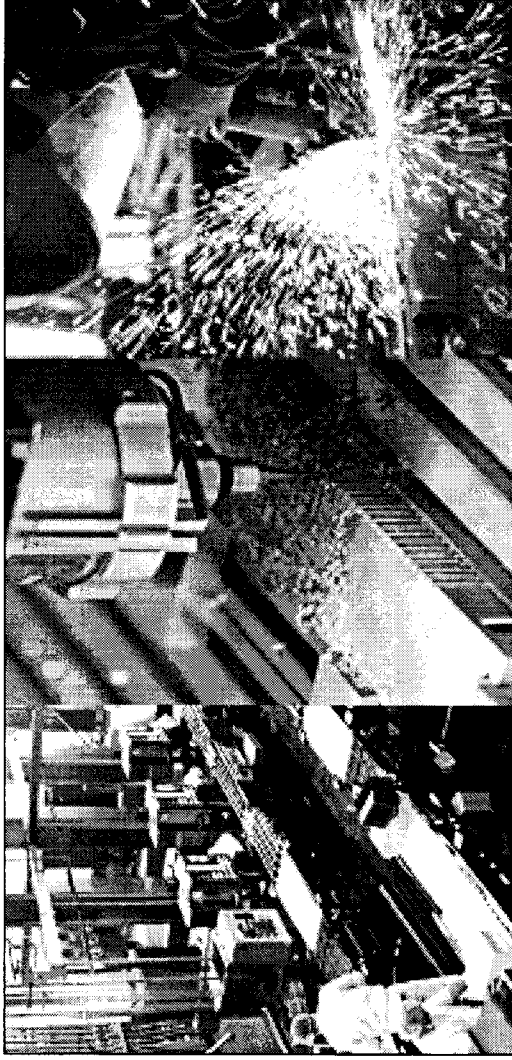
Please Tick (✓) if your company needs an Invoice YES \_\_\_ NO \_\_\_  
Submitted by \_\_\_\_\_

Name \_\_\_\_\_  
Designation \_\_\_\_\_  
Company \_\_\_\_\_  
Address \_\_\_\_\_

FMM Membership No. \_\_\_\_\_ PSMB MyCodeID No. \_\_\_\_\_

Telephone \_\_\_\_\_ Fax \_\_\_\_\_ Date \_\_\_\_\_

E-mail Address \_\_\_\_\_



# Certificate in Boilerman (Grade 2 / Grade 1)

Commencing May 12, 2012



SBL SCHEME



FMM Institute Malacca Branch

Centre for Professional Development

The Certificate in Boilerman Grade 2 and Grade 1 represents the FMM Institute Malacca Branch's effort and continued commitment to upgrade the Theoretical and Operational skills of current workforce in handling Steam Boilers in various sectors. This Certificate course will provide the knowledge to upgrade the skills of Boiler Supervisors, Operators, Assistants and Apprentice on matters relating to Operations, Mounting & Fittings, Inspections and Maintenance of Boilers at the workplace.

## CONTENTS

### Overview of Current Regulations

- Factory & Machinery Act 1967
- Occupational Safety & Health Act 1994
- Various Certificates
- Boiler Safety
- Penalties and Enforcement

### Steam Boilers

- Types and Description
- Annual Inspection Works / Preparation Works
- Boiler Maintenance / Retubing and Repair Procedures
- Essential Fittings / Accessories
- Boiler Operations / Emergency Shutdown Procedures
- Boiler House & Engine Room Requirements
- Instrumentation and Controls

### Water Treatment

- Boiler Chemicals – Types, Usage, Purpose, etc..
- Types of Softeners,
- Deaerators, Feed Tanks
- Feed Pumps & Chemical Pumps
- River Water Treatment – Clarifiers, Sand Filters, Chemicals Used, etc..

- Demineralized System for High Pressure Boilers

### Steam Engines and Turbines

- Types of Steam Engines
- Operating & Shutdown Procedures and Precautions to be taken
- Emergency Shutdown Procedures
- Generators Attached

### Other Boilers Accessories / Fuels

- Steam Traps
- Condensate Recovery
- Types of Fuel & Combustion Methods

### Safety in Boiler Operations

- Boiler Safety
- Chemical Safety & Chemical Health Risk Assessment
- Fire Explosions and Accidents Preventions
- Statutory Inspections

### Revision and Short Test

**NOTE:** The course content for GRD 2 & 1 are the same except for GRD 1 there will be an additional 2 classes (16 Hours)

## Benefits

This course will enable participants to:

- Upgrade the knowledge & skills of those handling and operating Steam Boilers
- Establish a level of legal knowledge pertaining to boilers in theory & practice, skills upgrading in order to manage & handle steam boilers towards better work performance;
- Create opportunities for career advancement & development within an organization;
- Prepare themselves for the Boilerman Grd 2 & Grd 1 Examinations conducted by DOSH.

## Trainer

**MR M. PERUMAL** holds a 1<sup>st</sup> Grade Steam Engineer's Certificate of Competency from the Factories and Machinery Department Malaysia (presently known as DOSH). He also has a Diploma in Mechanical Engineering from City and Guilds of London Institute. He has over 30 years of valuable experiences as an engineer and manager in various industries. During this time he has supervised in the construction, erection, commissioning of palm oil mills, refineries and petroleum sludge treatment plants in Malaysia & Indonesia. He is well versed with many different types of boilers namely palm oil waste fuel boilers, rubber wood waste fuel boilers, refinery package boilers – fire tube, water tube and combo boilers, etc.. Mr Perumal has successfully been conducting boilerman and steam engineering trainings since 1990.

## Entry Requirements

### Grade 2 Examination:

- Malaysian Citizen at least 21 years of age and completed minimum Form 3 Studies
- Min. 2 years working experience as a Boiler Assistant / Attendant (*directly handling Boilers*) OR 3 years experience as an Apprentice (*indirectly handling Boilers*)

## Grade 1 Examination

- Holds a **Boilerman Grd 2 Certificate**
- At least **18 months working experience** in handling Steam Boilers with a heating surface of not less than 500sq.ft.

## Administrative Details

**Date :** May 12, 13, 19 & 20, 2012

**(Grade 2)** (Saturday / Sunday)

May 12, 13, 19, 20 & 26, 2012

**(Grade 1)** (Saturday / Sunday)

**Time :** 9.00am - 5.00pm

**Venue :** FMM Institute Malacca Branch

D3-4 Plaza Jayamuda

Jalan Pelanduk Puth

75300 Melaka

**Fees:**

**Grd 2** - Members **RM1,400/pax**

Non-Members **RM1,800/pax**

**Grd 1** - Members **RM1,800/pax**

Non-Members **RM2,200/pax**

(Fees include course materials & refreshments)

Completed registration form with cheque made in favour of **FMM Institute** should be forwarded to FMM Institute Malacca Branch before **May 4, 2012**.

Those who register but fail to turn up for the programme will be billed accordingly. There will be no refund for cancellation within 2 working days prior to the programme, 50% refund for cancellation between 3-6 working days and full refund for cancellation 7 working days prior to the programme. However, replacement will be accepted at no additional cost. **CANCELLATION MUST BE MADE IN WRITING TO FMM INSTITUTE MALACCA BRANCH, FMM Institute Malacca Branch reserves the right to cancel or reschedule the programme and all efforts will be taken to inform participants of changes.**

For further enquiries, please contact:

Ms Low Lai Ching / Ms Yvonne Gan

**FMM Institute Malacca Branch**

Tel : 06-2831639 Fax : 06-2838090

E-mail: lai\_ching@fmm.org.my

Siew\_kim@fmm.org.my

**100% HRDF Claim can be applied through the SBL Scheme PRIOR to commencement of the programme**