

20-21 October 2009

Grand Millennium Hotel
Kuala Lumpur

A 2 day intensive program on

BOILERS

- Operations, Maintenance & Troubleshooting

METHODOLOGY

Participants learn through lectures with interactive presentation (Questions & Answers).
As the subject progresses, active audience participation is encouraged along the entire course

FOCUSING ON:

- Boiler Types And Applications
- Major Boiler Component Systems
- Boiler Operating Principles
- Boiler Performance And Efficiency (Operations)
- Maintenance And Inspection

PLUS:

- *Case Studies, Review & Discussion*
- *Open Forum, Q & A*

TYPES OF BOILERS

1. WATER TUBE BOILERS
2. FIRETUBE BOILERS
3. ONCE-THROUGH POWER BOILER
4. PACKAGE BOILERS

WHO SHOULD ATTEND

- Consulting Engineers
- Maintenance Engineers
- Project Engineers
- Maintenance Superintendents
- Maintenance Personnel
- Service Engineers
- Operators
- M & E Foremen
- Technical Assistants
- HR and Administration staff
- Technical Co-ordinators
- Purchasing and Materials Control personnel
- Operation & Maintenance Personnel
- Technicians
- New/Trainee Engineers
- Contractors

Day One

Tuesday, 20th October 2009

- 9:00 **TYPES OF BOILER**
- Firetube Boiler
 - Water Tube Boiler
 - Package Boiler
 - Once-Through Power Boiler

APPLICATIONS

10.30 Morning Coffee

10:45 **BOILER OPERATING PRINCIPLES**

BOILER OPERATIONS

BOILER STARTUP AND SHUTDOWNS

- 11:30 **SAFETY FEATURES**
- Safety Relief Valves
 - Bursting Disc

1.00 Lunch & Zohor

2:00 **MAJOR BOILER COMPONENT SYSTEMS**

AIR SYSTEM

FUEL SYSTEM

FEEDWATER SYSTEM

3:30 Afternoon Tea

3:45 **BURNER MANAGEMENT SYSTEM**

INSTRUMENT & CONTROL SYSTEM

STEAM SYSTEM

CASE STUDIES, REVIEW & DISCUSSION

4:30 **OPEN FORUM, Q & A**

5.00 End Of Day 1

Day Two

Wednesday, 21st October 2009

9.00 **BOILER PERFORMANCE AND EFFICIENCY (OPERATIONS)**

BURNER LIGHT-UP

COMBUSTION SYSTEM

- Principles Of Combustion
- Requirements For Combustion
- Atomization

CONTROL VANES

BOILER CONTROL STRATEGY

SWELL AND SHRINK

10:30 Morning Coffee

10:45 **CROSS LIMIT CONTROLS**

INTERLOCKS AND TRIPS

- Trip Logic
- Purge Logic

IGNITION AND LIGHT UP SEQUENCE

ALARMS

1:00 Lunch & Zohor

2:00 MAINTENANCE AND INSPECTION

BOILER PROBLEMS

- Improper Warm Up
- Boiler Drum Water (Shrink & Swell)

BOILER TUBE PROBLEMS

- Scale
- Tube Ruptures
- Tube Buckling
- Soot

BOILER TUBE REPAIRS

TUBE FAILURES

FEEDWATER SUPPLY PROBLEMS

FUEL SUPPLY PROBLEMS

AIR SUPPLY PROBLEMS

REGULAR MAINTENANCE SCHEDULE

3:30 Afternoon Tea

3:45 **cont. MAINTENANCE AND INSPECTION**

4.30 **OPEN FORUM, Q & A**

5:00 End of Course

PROGRAM FACILIATOR

ROBERTO MARAVILLA, BS in Mech Eng., was acting Consultant to Petronas & Qatar Petroleum on Pipelines & Piping System and Mechanical Equipment Management.

Prior to that, Roberto was a Corporate Assessor with a Multinational Oil and Gas company, where he evaluated the competency of engineers, operators and technicians. He was responsible for identifying, analysing, developing and delivering of courses/training programmes. Roberto has also customised courses for Esso Production Malaysia, Sudan Petroleum and PetroVietnam oil refinery.

He has taken the lead in the development and delivery of the multinational company initiative on “World Class Plants” with subjects like Reliability Centered Maintenance, Pipelines and Piping Systems, Distillation Columns, Storage Tanks & Maintenance of Boilers.

Roberto was a Deputy Project Manager responsible for a project implementation valued at USD 40 million. He also served as a Project Manager in a Nuclear Power Plant overseas.

With his vast experience, he is able to provide hands-on and practical training sessions, which have received excellent feedback from past clients from both the local and international markets.

AFTER ATTENDING THIS COURSE, YOU WILL RETURN TO YOUR JOB...

1. *Maximising boiler operations.*
2. *Learning better boiler management.*
3. *Optimising combustion efficiency.*
4. *Obtaining a thorough understanding on modern boilers.*
5. *Increasing maintenance practices for higher plant availability.*
6. *Being able to operate and maintain boilers with greater efficiency and safety.*
7. *Handling emergency situations in boiler plants with confidence.*
8. *Increasing the reliability and plant availability.*
9. *Learning to be cost effective with improved boiler plant performance.*

BOILERS – Operations, Maintenance & Troubleshooting

20-21 OCTOBER 2009 | KUALA LUMPUR

BAYARAN POS JELAS
POSTAGE PAID
PEJABAT POS BESAR
KUALA LUMPUR
MALAYSIA
NO. WP 0722

Please fax us the completed registration form

Name (Dr/Mr/Mrs/Ms)

Company Name

Designation

Address

City/Postcode

Country

Tel (Home)

(Office)

Mobile

Fax

Email

091094

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

If undeliverable, please return to:

46A-6, Mentari Business Park, Jalan PJS 8/2, Bandar Sunway 46150 Petaling Jaya Selangor, Malaysia

Update your details at www.cmtevents.com

CMT'S 2009 KL EVENTS

Refinery Equipments Maintenance & Troubleshooting Of Stationary Equipments

17-18 August 2009, Grand Millennium Hotel, Kuala Lumpur

An Overview Of Strata Titles Act 1985, Management Of High Rise Buildings And Land Development Approvals

19-20 August 2009, JW Marriott Hotel, Kuala Lumpur

Detection, Elimination & Prevention Of Procurement Fraud

19-20 August 2009, Grand Millennium Hotel, Kuala Lumpur

Oil & Gas Pipeline Systems - Operations, Maintenance, Failure Prevention & Integrity Management

19-20 August 2009, Grand Millennium Hotel, Kuala Lumpur

Understanding The Risks Factor In Strategic Sourcing

19-20 August 2009, JW Marriott Hotel, Kuala Lumpur

Root Cause Failure Analysis For Maintenance

14-15 October 2009, Crowne Plaza Mutiara Hotel, Kuala Lumpur

Excel Budgeting Techniques

19-20 October 2009 JW Marriott Hotel, Kuala Lumpur

Preparing Financial Proposals

21-22 October 2009, Crowne Plaza Mutiara Hotel, Kuala Lumpur

Financial Analysis For Non-Finance Managers

26-27 October 2009 Grand Millennium Hotel, Kuala Lumpur

Pengagihan & Pemasangan Sistem Bekalan Elektrik

28-29 Oktober, Hilton Petaling Jaya

CMT, a global organizer HQ in Singapore, is dedicated to the provision of latest business and technology information through high profile conferences for varied industries. CMT forums encircle the globe from Asia Pacific to Middle East to New Europe/Russia and the Americas. Today in its 26 years of operation, CMT has forged relationship with leading market player in the industry to analyze the latest industry trends and provide timely information for your decision making.

HOW TO REGISTER

ONLINE: www.cmtevents.com
EMAIL: adminkl@cmtsp.com.sg
FAX: (603) 2162 6393
TEL: (603) 2162 7322
POST TO: Lot 7.03, 7th Floor, North Block,
The Ampwalk, 218 Jalan Ampang,
50450 Kuala Lumpur

FEES

The full Registration Fee includes cost of all sessions, luncheon, coffee/tea & documentation.

1 Person	Group fee per person for 3 or more* (from the same company)
RM1995	RM1695 (MIN SAVINGS OF RM900)

* Terms and conditions apply.

Cancellations, Refunds & Transfers: A full refund will be promptly made for all written cancellations 3 weeks before the meeting. Thereafter, cancellations are not refundable. A substitute may be made at any time.

PAYMENT

By Telegraphic Transfer

ACCOUNT NAME:

Centre for Management Technology Sdn Bhd

A/C No: **3 - 0903390 - 12**

BANK: Public Bank Berhad

BRANCH: Grd Floor, Menara Public Bank
Jalan Ampang

swift code: PBBEMYKL

TT must include additional RM10 for Beneficiary's Bank charges. Delegates must bear all bank charges and local taxes (if applicable). Fees must be NETT of ALL charges.

CHEQUES: Crossed & payable to

"Centre for Management Technology Sdn Bhd"

CERTIFICATE OF COMPLETION

A Certificate of Completion will be awarded upon successful completion of each course. This serves as evidence of your personal and professional commitment to your career.

COURSE TIMING

Registration: 8.30 am, Course Begins: 9.00 am,

Morning Coffee: 10.30 am,

Lunch: 1.00 pm to 2.00 pm,

Tea Break: 3:30 pm, Course Ends: 5.00 pm