

A 2-intensive course on

BOILERS

– *Operations, Maintenance & Troubleshooting*

23 - 24 April 2008 ■ JW Marriott Hotel, Kuala Lumpur

COURSE HIGHLIGHTS:

- Types Of Boiler
 - Firetube Boiler
 - Water Tube Boiler
 - Package Boiler
 - Once-Through Power Boiler
- Five Major Boiler Component Systems
- Applications
- Boiler Operating Principles
- Boiler Startup And Operations
- Safety Features
- Air System
- Fuel System
- Feedwater System
- Burner Management System
- Instrument & Control System
- Steam System
- Combustion System
- Boiler Operations
- Alarms
- Maintenance And Inspection
- Boiler Tube Problems
- Boiler Problems



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

TYPES OF BOILERS

- WATER TUBE BOILERS
- FIRETUBE BOILERS
- ONCE-THROUGH POWER BOILER
- PACKAGE BOILERS

Day 1

Wednesday, 23rd April 2008

9:00 **COURSE INTRODUCTION**

TYPES OF BOILER

- Firetube Boiler
- Water Tube Boiler
- Package Boiler

FIVE MAJOR BOILER COMPONENT SYSTEMS

APPLICATIONS

10:30 Tea Break

10:45 **BOILER OPERATING PRINCIPLES**

BOILER STARTUP AND OPERATIONS

11:30 **SAFETY FEATURES**

- Safety Relief Valves
- Bursting Disc

1:00 Lunch and Zohor

2:00 **AIR SYSTEM**

FUEL SYSTEM

FEEDWATER SYSTEM

3:30 Tea Break

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 2

Thursday, 24th April 2008

9:00 **COMBUSTION SYSTEM**

- Principles Of Combustion
- Requirements For Combustion
- Atomization

10:30 Tea Break

10:45 **BOILER OPERATIONS**

- Cross Limit Controls
- Interlocks And Trips
- Trip Logic
- Purge Logic

ALARMS

1:00 Lunch and Zohor

2:00 **MAINTENANCE AND INSPECTION**

BOILER TUBE PROBLEMS

- Scale
- Tube Ruptures
- Tube Buckling
- Soot

BOILER PROBLEMS

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

3:30 Tea Break

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

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

5:00 End of Course

METHODOLOGY

Participants learn through lectures with interactive presentation (Questions & Answers).

As the subject progresses, active audience participation is encouraged along the entire course.

Program topics, speakers and schedules published herein are confirmed as at printing time. Please refer to the event's timetable page at www.cmtevents.com for the most up-to-date information.

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.

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

Name	
Position	
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Name	
Position	
Email	
Tel	Fax

Company	
Address	
City/Postcode	Country
Approving Manager's Name	
Position	
E-mail	

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

	1 Person	Group fee for 3 or more* (from the same company)
Regular Fee	RM1,995	RM1,695 (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.

Cheques : Crossed & payable to
"Centre for Management Technology Sdn Bhd"

Photocopy Registration Form to Preserve Brochure Copy. April 2008

TELEGRAPHIC TRANSFER

Account Name: **Centre for Management Technology Sdn Bhd**
 A/C No: **3 - 0903390 - 12**
 Bank: Public Bank Berhad
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 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.

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TO REGISTER

Online: www.cmtevents.com
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 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

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 you 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

Register online ~ www.cmtevents.com

LEARN FROM THE BEST

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, Boilers Operations & Maintenance, Pipelines and Piping Systems, Distillation Columns & Storage Tanks.

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.