

22-23 APRIL 2010 JW MARRIOTT HOTEL KUALA LUMPUR

A 2- day intensive program on

# BOILERS

 Design, Construction, Commissioning, Operations, Maintenance & Repair

#### **FOCUSING ON**

- Boiler Types, Classification, Components And Application
- Boiler Systems
  - Combustion System
  - Air System
  - Water System
  - Fuel System
  - Steam System
- Interlocks And Trips
- Boiler Operations
  - Make Up Feedwater Supply
  - Blowdown System
  - Start Up And Shutdown Procedures
- Boiler Performance And Efficiency
- Maintenance & Repair
  - Corrosion
  - Welding
  - Relief Valves
- Best Practice Condensate System

#### **OBJECTIVES**

This course is a two day intensive course concentrating on the following main topics:

- 1. Design, Construction and Commissioning
- 2. Operations
  - a. Losses due to Incorrect Operations
  - b. Losses due to Fuel & Inefficient Heat Management
  - c. Losses due to poor operational practices
- 3. Maintenance and Repair
  - a. Leak Testing and Repair
  - b. Boiler Tube Replacement
  - c. Boiler Drum Leak Test and Repair
  - d. Water Demineralization System

The course will discuss the new technology that is now available on a commercial basis to practically ELIMINATE water treatment chemicals costs associated to make –up water, thus further enhancing operational efficiency of the system.

#### **METHODOLOGY**

Participants learn through lectures with interactive presentation (Questions & Answers). The program is designed with case studies, review and discussion. As the subject progresses, active audience participation is encouraged along the entire course with open forums and Question & Answers.

### Day One Thursday, 22nd April 2010

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9:00	Program Opening and Course Introduction
9:30	BOILER TYPES, CLASSIFICATION, COMPONENTS AND APPLICATION
10:30	Morning Coffee
10.45	<ul> <li>BOILER SYSTEMS</li> <li>Combustion System</li> <li>Air System</li> <li>Water System</li> <li>Fuel System</li> <li>Steam System</li> </ul>
1:00	Lunch & Zohor
2:00	BOILER SYSTEMS .cont
3:30	Afternoon Tea
3:45	<ul><li>INTERLOCKS AND TRIPS</li><li>Boiler Limits, Control Strategies and Control Logics</li></ul>

## Day Two Friday, 23rd April 2010

#### 9:00 **BOILER OPERATIONS**

- Make up Feedwater Supply
  - Water Solids Impurities Control
  - Chemical Treatment
  - Alternative Source
  - Water Analysis Schedule
- Blowdown System
  - Regular blowdown
  - Emergency Blowdown
  - Continuous Blowdown
  - Supplementary Blowdown

#### 10:30 Morning Coffee

#### 10.45 **BOILER OPERATIONS .cont**

- Start up and Shutdown Procedures
  - Cold Startup
  - Normal Shutdown
  - Emergency Shutdown
  - Long Term Shutdown

## BOILER PERFORMANCE AND EFFICIENCY

1:00 Lunch & Zohor

2:00 MAINTENANCE & REPAIR

End of Day 1

5.00

#### A. CORROSION

- Tube Problems
  - Scale
  - Tube Rupture
  - Buckling
  - Leaking Tubes
- Drum Concerns
  - Level
  - Pitting
  - Drum Internals
  - Elongation

#### **B. WELDING**

- Patch Welds
- · Weld quality

#### **C. RELIEF VALVES**

- 3:30 Afternoon Tea
- 3:45 BEST PRACTICE CONDENSATE SYSTEM
  - Materials
  - Piping Connections
- 4:30 Q & A
- 5:00 End Of Course

#### **LEARNING PARTNER**

**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, analyzing, developing and delivering of courses/training programs. Roberto has also customized 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.

#### WHO SHOULD ATTEND

- Managers
- Boiler Engineers
- Steam Production Operators and Maintenance Personnel
- Design Engineers
- Maintenance Engineers,
   Superintendents and Personnel
- Service Engineers
- Project Engineers
- Newly hired Engineers

- Consultants
- Contractors
- Chemical Treatment Specialists
- M &E Foremen
- Technical Assistants
- Technicians

## **BOILERS – DESIGN, CONSTRUCTION, COMMISSIONING, OPERATIONS, MAINTENANCE & REPAIR**

Photocopy Registration Form to Preserve Brochure Copy. April 2010

22-23 APRIL 2010 | KUALA LUMPUR

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#### Financial Strategies For Managing Costs, Growing Revenues & Increasing Cash Flows

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**HOW TO REGISTER** 

www.cmtevents.com adminkl@cmtsp.com.sq EMAIL:

(603) 2162 6393 FAX: (603) 2162 7322

Lot 7.03, 7th Floor, North Block, POST TO:

The Ampwalk, 218 Jalan Ampang,

50450 Kuala Lumpur

#### FEES

TEL:

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)

<sup>\*</sup> 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

3 - 0903390 - 12 A/C No: Public Bank Berhad BANK:

Grd Floor, Menara Public Bank BRANCH:

Jalan Ampang

swift code: **PBBEMYKL** 

TT must include additional RM75 for Beneficiary's Bank charges. Delegates must bear all bank charges and local taxes (if applicable). Fees must be NETT of ALL charges.

Crossed & payable to CHEQUES: "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 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

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