Program topics, speakers and schedules listed herein are confirmed as at printing time. Please refer to the event's **Latest Schedule** at <u>www.cmtevents.com</u> for most up-to-date details.



- Design Considerations
- Construction, Erection and Commissioning
- Inspection & Maintenance
- Testing and Repairs

Who Should Attend

- Consulting Engineers
- Maintenance Engineers
- Project Engineers
- Maintenance Superintendents
- Maintenance Personnel
- Service Engineers
- Operations, Maintenance and Instrumentation Leadmen
- Plant Operators
- Chargemen
- Technical Assistants
- Technical Co-ordinators
- Operation & Maintenance Personnel
- Technicians
- New/Trainee Engineers
 - Contractors

COURSE HIGHLIGHTS:

- Basic Design Concepts
- Types Of Storage Tanks
- Construction And Erection Of Typical Aboveground Storage Tank
- Operations
 - Operating Principles
 - Operating Problems
 - Foaming
 - Leaks And Repairs
 - Corrosion
 - Vent Associated Problems
 - Spillage Control And Environment Protection
- Maintenance, Repair And Troubleshooting
 - Bottom Plate Thickness Inspection And Analysis
 - Tank Verticality
 - Leak Test
 - Sludge Removal And Tank Cleaning
 - Sludge Treatment And Disposal

Day 1

Monday, 13th August 2007

8:30 Welcome Address and Course Introduction

9:00 BASIC DESIGN CONCEPTS

- Types Of Storage Tanks
 - Floating Roof
 - Fixed Roof
 - Bullet Tanks
 - Spherical Gas Tanks
 - Bolted Tanks
 - Plate Thickness, Bottom And Side Plates
 - Roof Frame Design

- 10:30 Tea Break
- 10:45 BASIC DESIGN CONCEPTS (CONT)
- 1:00 Lunch

2:00 CONSTRUCTION AND ERECTION

- Floating Roof Tank
- Fixed Roof Tank
- Bullet Type Gas Tanks
- Spherical Gas Tanks
- Bolted Tanks
- Welding Procedures
- Plate Pre-Forming
- Bund Provision
- 3:30 Tea Break
- 3:45 CONSTRUCTION AND ERECTION (CONT)
- 4:30 Review and Q&A
- 5:00 End of Day 1

Day 2

Tuesday, 14th August 2007

8:30 TANK OPERATIONS

- Operating Pressures
- Vaporization And Its Effect On Operating Pressures
- Operating Tanks With Higher Fluid Density
- Wind Load Effects On Verticality
- Inspection Of Vents And Other Safety Features
- Leak Test

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9:30 **OPERATING PROBLEMS**

- Water Formation Due To Vaporization
- Product Contamination
- Sludge Deposits At Tank Bottom
- 10:30 Tea Break

10:45 MAINTENANCE AND REPAIR PART 1

- Corrosion Inhibition
- Tank Painting And Coating
- 1:00 Lunch

2:00 MAINTENANCE AND REPAIR PART 2

- Painting Inspection And Repair
- Sludge Removal And Tank Cleaning
- Sludge Treatment Disposal
- Tank Leak Repair
- Hot Tapping
- Leak Plugs
- Valve Replacements And Repair
- 3:30 Tea Break

3:45 MAINTENANCE AND REPAIR PART 2 (CONT)

- 4:30 Review with Q&A
- 5:00 End Of Course

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LEARN FROM THE BEST

ROBERTO BENEDICTO MARAVILLA, BS in Mech Eng., was acting Consultant to Petronas Plants & Qatar Petroluem on the following subjects; Pipelines & Piping System and Mechanical Equipment Management.

Prior to that, Roberto was a Corporate Assessor attached to a Multinational Oil and Gas company, where he evaluated the competency of engineers, operators and technicians. He was also responsible for identifying, analysing, developing and delivering of courses/training programmes for the staff. Roberto has also customised courses for other clients, notably ESSO Production Malaysia, SUDAN Petroleum and PETRO-VIETNAM 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 – A New Approach, Pipelines and Piping Systems, Distillation Columns, Storage Tanks, Mechanical Equipment Management, Operations and Maintenance of Boilers, he has also developed and delivered a host of other generic courses like Pumps, Compressors, Furnace, Separators, Heat Exchangers, Internal Combustion Engines, Gas Turbines.

Roberto also was a Deputy Project Manager responsible for a project implementation, which totalled a contract value of USD 40 million and has also served as a Project Manager in a Nuclear Power Plant overseas.

Roberto has served as a Lecturer at a University in the Philippines lecturing senior students on major subjects such as Power Plant Engineering, Engineering Management, Process Plant Equipment, Project Management and Maintenance Optimisation.

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

REGISTRATION

Name	
Position	
Email	
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.

Regular Fee	RM2,695	RM2,395 (MIN SAVINGS OF RM900)
	1 Person	Group fee for 3 or more* (from the same company)

^{*} Terms and conditions apply

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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. Aug 2007

COURSE TIMING

Registration: 8.00 am, Course Begins: 8.30 am, Morning Coffee: 10.30 am, Lunch & Zohor: 1.00 pm to 2.00 pm, Break: 3:30 pm, Course Ends: 5.00 pm

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

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.

> Register online www.cmtevents.com

> > ~ CMT'S UPCOMING 2007 EVENTS ~

A 2-day intensive course on

DISTILLATION

- Principles, Operation and Maintenance
- Distillation Simulation
- Basic Computation for Heat and Material Balance

15 - 16 AUGUST 2007 • KUALA LUMPUR

Course Highlights:

DESIGN CONCEPTS AND DISTILLATION PRINCIPLES

- Basic Design Concepts
- Simple Distillation
 - Distilling Tower Design And Construction
- Fractional Distillation Column Installation

OPERATIONS

- Operating Parameters
- Operational Problems Hydrotesting
- Normal Operations
 - · Maintenance, Inspection And Repair
- Introduction To Plant Distillation Simulation

A PRACTICAL COURSE ON OPERATION. MAINTENANCE & TROUBLE SHOOTING OF

Air Conditioning System

28 - 29 AUGUST 2007 • KUALA LUMPUR

Course Highlights:

- Introduction
- Theory And Practice Of Air Conditioning System
- The Constructions Of Air Conditioning Equipment
- **Different Types Of Air Conditioning Systems**
- **Operating Parameters That Affect Performance**
- Water Cooled System: Cooling Towers & Water Pumps
- Air Conditioning Control System
- Maintenance Of Air Conditioning Systems

CASE STUDY (1): Trouble Shooting Air Cooled Systems CASE STUDY (2): Trouble Shooting Water Cooled Systems CASE STUDY (3): Trouble Shooting Ahu Perforamance