



A 3-day intensive course on

STORAGE TANKS

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

19-21 November 2008 · JW Marriott Hotel, Kuala Lumpur

COURSE HIGHLIGHTS

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

Day 1

Wednesday, 19 November 2008

9:00 Welcome Address and
Course Introduction

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 Morning Coffee

10:45 **cont. BASIC DESIGN
CONCEPTS**

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 Afternoon Tea

3.45 **cont. CONSTRUCTION AND
ERECTION**

4:30 **Review and Q&A**

5:00 End of Day 1

Day 2

Thursday, 20 November 2008

9.00 **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

10:30 Morning Coffee

10.45 **OPERATING PROBLEMS**

- Water Formation Due To Vaporization
- Product Contamination
- Sludge Deposits At Tank Bottom

1:00 Lunch

2.00 **MAINTENANCE AND
REPAIR PART 1**

- Corrosion Inhibition
- Tank Painting And Coating

3.30 Afternoon Tea

3.45 **cont. MAINTENANCE AND
REPAIR PART 1**

4:30 Review with Q&A

5:00 End of Day 2

Day 3

Friday, 21 November 2008

- 9:00 **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

10.30 Morning Coffee

10.45 **LNG TANKS
(Reference To LUSAS Software)**

- Basic Design
- Features
- Applications
- Nature Of LNG

ANALYSIS OF LNG TANK

- Static Analysis
- Wind Loading
- Modal And Seismic Analysis
- Temperature Modeling
- Leakage Modeling
- Prestress / Post-Tensioning
- Burn-Out Modeling
- Relief Valve Heat Flux Modeling
- Soil-Structure Interaction

1.00 Lunch

2.00 **SAFETY INCIDENTS AND SAFETY CONCERNS**

- LNG Safety

GOVERNING CODES

3.30 Afternoon Tea

3.45 **BEST PRACTICES**

5.00 End of Course

WHO SHOULD ATTEND

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

REGISTRATION

STORAGE TANKS

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.

	1 Person	Group fee for 3 or more* (from the same company)
Regular Fee	RM3,095	RM2,695 (MIN SAVINGS OF RM1200)

* 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. November 2008

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.

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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.

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, 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. *In September 2007, Roberto conducted two in-house training courses on Storage Tanks for Fluor Daniel inc. which were received well by the client.*

Update your details at
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