

2-day intensive program on

Best Practices In

PIPELINE SYSTEMS

*- Design, Operations, Maintenance,
Installations & Integrity Management*

17-18 December 2008

• JW Marriott Hotel • Kuala Lumpur

Course Highlights

- Pipeline Design
- Pipeline Operation
- Pipeline Maintenance
- Offshore Pipelines
- Pipeline Integrity Management
- Inspection Methods
- Pipeline Repair
- Pipeline Construction Guidelines

COURSE OBJECTIVE

Pipelines (liquid and gas) are the most economical form of fluid transmission. The course will enable the participants to learn the basics of design, operations, maintenance, installation and integrity.

Failures in pipelines can lead to catastrophic environmental problems with severe collateral damage.

The objectives of this course are to illustrate best operating practices and to increase awareness of the importance of pipeline integrity management. Attending this course will also add confidence to all personnel reducing the chances of failures by understanding the probable cause and effect of each.

WHO SHOULD ATTEND

- Pipeline Owners
- Pipeline Operators
- Project Engineers
- Maintenance Engineers
- Pipeline Maintenance Technicians
- Maintenance Planners
- Integrity Specialists
- Service Engineers
- Supervisors
- Inspectors
- Equipment Suppliers
- Chargemen
- Technical Assistants
- Technical Coordinators
- Operation & Maintenance Personnel
- Technicians
- New/Trainee Engineers
- Contractors

Day 1

Wednesday, **17 December 2008**

9.00 **PIPELINE DESIGN**

- Design Basis
- Piping Materials
- Fluid Types

10.30 Morning Coffee

10.45 **PIPELINE OPERATION**

- Nominations Process For Gas And Liquid Systems
- Scheduling And Batching Multi Product Systems
- SCADA Systems, Their Function And Purpose
- Metering Methods And Custody Transfer.
- Pipeline Cleaning And Pigging
- Pig Receiving And Launching

1.00 Lunch & Zohor

2.00 **PIPELINE MAINTENANCE**

- Planned Maintenance Strategies,
- Corrosion Management
- Crack Detection Systems
- Repairs And Remedial Actions

3.30 Afternoon Tea

3.45 **OFFSHORE PIPELINES**

- Basic Design Parameters
- Pipeline Installation
- Flow Regimes
- Pipeline Protection Systems

5.00 End of Day 1

Day 2

Thursday, 18 December 2008

- 9.00 **PIPELINE INTEGRITY MANAGEMENT**
- Management System Approach.
 - Elements Of An Integrity Management Plan, Identifying High Consequence Or Unusually Sensitive Areas
 - Threat Identification: Both Time Dependent And Independent, Human Error, ASME B31.8 S
 - Addressing Particular Threats Third Party Damage, Material And Construction Defects
 - Risk Ranking Of Pipelines, Risk Based Inspection
 - Pipeline Overpressure

10.30 Morning Coffee

- 10.45 **INSPECTION METHODS**
- Right Of Way Patrols, In Line Inspection Methods (Metal Loss, Crack Detection And Pipe Deformation Tools)
 - Direct Assessment Methods Including Hydro Testing And Surface Profiling
 - Preventive And Mitigation Measures
 - Implementing Damage Prevention Measures
 - Emergency Response Planning
 - Scope Of An Emergency Response Plan
 - Emergency Response Exercises

1.00 Lunch & Zohor

- 2.00 **PIPELINE REPAIR**
- Leak Detection Systems
 - Metal Loss Detection
 - Pipelines Safety Guide
 - Pipeline Corridor Management

3.30 Afternoon Tea

- 3.45 **PIPELINE CONSTRUCTION GUIDELINES**
- Access And Clearing
 - Trenching, Boring
 - Pipe laying And Welding
 - Testing Commissioning
 - Management Of Pipelines Facilities

5.00 End of Course

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

1. Learning Key Operation, Maintenance, And Integrity Fundamentals And Practices For Pipelines.
2. Gaining Thorough Working Knowledge In The Interdependence Of Design, Operation, And Maintenance On The Reliability And Cost-Effectiveness Of Pipeline Systems.
3. Understanding The Requirements And Application Of The Relevant ASME Code In Piping System Operation, Repairs And Alterations.
4. Increasing Your Ability And Skills In Piping Failure Detection And Analysis, Estimating Failure Consequences, And Fitness-For-Service Assessment.

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.

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Company _____
 Address _____
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 Approving Manager's Name _____
 Position _____
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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	RM2,695	RM2,295 (MIN SAVINGS OF RM1,200)

* 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. December 2008

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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

TELEGRAPHIC TRANSFER

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LEARN FROM THE BEST

ROBERTO MARAVILLA, BS in Mech Eng., was acting Consultant to Petronas Plants & Qatar Petroleum 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, Mechanical Equipment Management, Operations and Maintenance of Boilers, he has

also developed and delivered a host of other generic courses like Pumps, Compressors, Furnace, Distilling Columns, Separators, Heat Exchangers, Internal Combustion Engines, Gas Turbines, Storage Tanks.

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 hands-on and practical training sessions, which have received excellent feedback from past clients from both the local and international markets.