

A 2-day intensive program on

# OIL & GAS PIPELINE SYSTEMS

- Operations, Maintenance, Failure  
Prevention & Integrity Management

**24-25 MAY 2010**

JW MARRIOTT HOTEL,  
KUALA LUMPUR

## **FOCUSING ON**

- Pipeline Design
- Pipeline Operation
- Pipeline Maintenance
- Pipeline Repair
- Pipeline Integrity Management
- Inspection Methods



**CASE STUDIES ON;**

- 1. TRANS CANADIAN PIPELINE**
- 2. OLYMPIC PIPELINES**

## OBJECTIVE

Pipelines (liquid and gas) are the most economical form 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. Attendees will receive a comprehensive set of notes and a copy of the overhead presentations**

## DAY 1 Monday, 24th May 2010

### 9.00 PIPELINE DESIGN

- Design Basis
- Piping Materials
- Pipeline Installation
- Offshore Design Parameters

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
- Reliability Centered Maintenance
- Supply Chain management
- Life cycle calculations including abandonment.
- Inspection Systems
  - In Line Inspections ( ILI)

3.30 Afternoon Tea

### 3.45 PIPELINE REPAIR

- Leak Detection Systems
- Metal Loss Detection
- Pipelines Safety Guide
- Pipeline Corridor Management

5.00 End of Day 1

## DAY 2 Tuesday, 25th May 2010

### 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.

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 Mitigative Measures
- Implementing Damage Prevention Measures

- Emergency Response Planning
- Scope Of An Emergency Response Plan
- Emergency Response Exercises

1.00 Lunch & Zohor

2.00 **CASE STUDIES**

**1. TRANS CANADIAN PIPELINE**

**2. OLYMPIC PIPELINES**

- Full view analysis of the causes of failure, their collateral damage and a full pledged discussion of details. This is a 878 page full report detailing the actions taken, recommended course of action by the whole class.

3.30 Afternoon Tea

3.45 The class as a group will submit their report and cite pertinent data as to the causes, course of actions taken and the final recommendatory report to be countered by the other group presenting the points of view of the opposing group.

5.00 End of Program

**WHO SHOULD ATTEND**

- |                                    |                                     |
|------------------------------------|-------------------------------------|
| • Pipeline Owners                  | • Supervisors                       |
| • Pipeline Operators               | • Inspectors                        |
| • Project Engineers                | • Equipment Suppliers               |
| • Maintenance Engineers            | • Operation & Maintenance Personnel |
| • Pipeline Maintenance Technicians | • Technicians                       |
| • Maintenance Planners             | • New Engineers                     |
| • Integrity Specialists            | • Contractors                       |

**PROGRAM FACILITATOR**

**ROBERTO MARAVILLA**, BS in Mech Eng., was acting Consultant to Petronas Plants & Qatar Petroleum on the following subjects; Pipelines & Piping System and Refinery 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.

**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.**

# OIL & GAS PIPELINE SYSTEMS - OPERATIONS, MAINTENANCE, FAILURE PREVENTION & INTEGRITY MANAGEMENT

24-25 MAY 2010 | KUALA LUMPUR

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## HOW TO REGISTER

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POST TO: Lot 7.03, 7th Floor, North Block,  
The Ampwalk, 218 Jalan Ampang,  
50450 Kuala Lumpur

## FEES

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)
RM3795	RM2795 (MIN SAVINGS OF RM3000)

\* 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**

A/C No: **3 - 0903390 - 12**

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## 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 your 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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