

A 2 day intensive program on

Best Practices in *Plant Piping Systems*

- Design, Operation & Maintenance

22-23 October 2009

Grand Millennium Hotel
Kuala Lumpur

FOCUSING ON:

- Design Bases – Service Conditions
- Plant Piping Specifications
- Applicable ASME Code And Industry Guide
- Industry Best Practice And Applications
- Operating Strategies
- Review of Requirements of API 570
- Operator Competencies Requirements
- Maintenance Practices And Procedures
- Maintenance And Inspection
- Maintenance Repair
- Review And Q & A

**AFTER ATTENDING THIS PROGRAM,
YOU WILL RETURN TO YOUR JOB...**

- Understanding clearly the key aspects of piping systems including design, operation, maintenance, failure prevention, and troubleshooting, including the applicable codes, standards and industry practices.
- Obtaining practical and effective methods and guidelines to assist in achieving, cost-effective operation and maintenance of piping systems with high technical integrity.
- Developing skills in troubleshooting and improving existing piping systems.

WHO SHOULD ATTEND

- Consulting Engineers
- Design Engineers
- Maintenance Engineers (military and industry)
- Project Engineers
- Maintenance Superintendents
- Maintenance Personnel
- Service Engineers
- Planners and Schedulers
- M & E Foremen
- Chargemen & Technical
- Technical Assistants
- Technical Co-ordinators
- Operation & Maintenance Personnel
- Technicians
- New/Trainee Engineers
- Contractors

Day One

Thursday, 22nd October 2009

9.00 **DESIGN BASES – SERVICE CONDITIONS**

PLANT PIPING SPECIFICATIONS

APPLICABLE CODES

- API
- ASME B 31.1 – Power Piping
- ASME B 31.3 – Petrochemical and Chemical
- ASME B 31.4 – Liquid Transmission
- ASME B 31.8 – Gas Transmission

PIPE DESIGN CONSIDERATIONS

- Flow Volumes And Velocity
- Friction Losses
- Flow Regimes
- Reynold's Number
- Operating And Transient Pressures
- Joints Design

10:30 Morning Coffee

10.45 **APPLICABLE ASME CODE AND INDUSTRY GUIDE**

UNDERSTANDING ASME REQUIREMENTS

- Pipe Supports And Hangers
- Piping Integrity And Fit For Service Requirements
- Pipe Sizing And Materials Selection

1.00 Lunch & Zohor

2:00 **INDUSTRY BEST PRACTICE AND APPLICATIONS**

- Static Loads, Dynamic Loads, Expansion, Flexibility And Support Spacing
- Limitations, Safeguards, And Engineering Controls For Piping Components, Material Properties, Fluid Characteristics, Fluid Velocity, Corrosion, Erosion

3:30 Afternoon Tea

3:45 **OPERATING STRATEGIES**

- HSE Considerations
- Startup, Shutdown, Emergency Operating Procedures
- Flushing Procedures, Heat Tracing
- Change Control Policy Procedures For Process Operating Changes

4:30 **QUESTION & ANSWER**

5:00 End of Day 1

Day Two

Friday, **23rd October 2009**

9:00 **REVIEW OF BASIC REQUIREMENTS OF API 570**

- Inspection
- Rerating
- Thickness Measurement Limits
- Remaining Life Calculations

10:30 Morning Coffee

10:45 **OPERATOR COMPETENCIES REQUIREMENTS**

- Competency Gap Analysis
- Gap Closure Measures

12:00 **MAINTENANCE PRACTICES AND PROCEDURES**

- Zero Leak Program
- Remedial Measures

1:00 Lunch & Zohor

2:00 **MAINTENANCE AND INSPECTION**

- Methods For Hydrotesting And Leak Testing
- Inspection (Visual, NDT)
- Evaluation Of Cracks And Flaws
- Evaluation Of Mechanical Damage
- System Evaluation For Remaining Life
- Validating Inspection Data

3:30 Afternoon Tea

3:45 **MAINTENANCE REPAIR**

- Welded Repairs
- Hot Tapping
- Temporary Repairs
- Permanent Repairs
- Specialized Repairs

4:30 **REVIEW AND Q & A**

5:00 End Of Program

PROGRAM FACILIATOR

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.

Best Practices in Plant Piping Systems – Design, Operation & Maintenance

22-23 OCTOBER 2009 | KUALA LUMPUR

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An Overview Of Strata Titles Act 1985, Management Of High Rise Buildings And Land Development Approvals

19-20 August 2009, JW Marriott Hotel, Kuala Lumpur

Detection, Elimination & Prevention Of Procurement Fraud

19-20 August 2009, Grand Millennium Hotel, Kuala Lumpur

Oil & Gas Pipeline Systems - Operations, Maintenance, Failure Prevention & Integrity Management

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21-22 October 2009, Crowne Plaza Mutiara Hotel, Kuala Lumpur

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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) |
|----------|--|
| RM2695 | RM2395 (MIN SAVINGS OF RM900) |

* 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.

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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