CORROSION MANAGEMENT SYSTEM
Maximize Your Corrosion Management System to Achieve “Zero Failure”

17th - 19th November 2014, Kuala Lumpur, Malaysia

Petrosync Lecturer
Yousuf Memon B.E.
Plant Inspection & Corrosion Control Consultant

- Over 35 years of experience in upstream & downstream oil & gas industry
- CEO of Reliance Swift Veritas (Pvt) Ltd.
- Director of PetroSult & Unimart
- Specializing in corrosion & integrity management systems execution and training

Major Corrosion Projects
- Prepared Policies for Corrosion Monitoring Systems & Corrosion Inhibitor Injection System for Total ABK.
- Prepared Corrosion Management System for Jeddah Oil Refinery
- Presented technical paper on Failures in Refinery Overhead of Atmospheric Distillation Column.

Masterclass Overview
The aim of this course is to provide guidance to individuals and organizations within industry involved in the development and operation of Corrosion Management Systems for facilities used in the upstream production and processing of oil and gas.

In the company’s senior management has developed a policy of “zero failures” or “no failures”. In translating this management directive into reality, engineers and other operational experts manage corrosion using a combination of well-established strategies, innovative approaches and, if necessary, experimental trials, e.g. by applying smart & advanced corrosion testing or monitoring methodology to ensure plant reliability & prevent failures.

It is widely recognized within the oil and gas industry that effective management of corrosion will contribute towards the maintenance of asset integrity and achieve the following benefits:

Compliance with statutory and corporate safety, health and environmental requirements:
- Reduction in safety and environmental hazard from leaks and structural failures;
- Increased plant availability, improving income;
- Reduction in unplanned maintenance, reducing costs;
- Reduction in deferment costs;
- Optimization of mitigation, monitoring and inspection costs, and
- Improvement in the working environment with associated benefits.
Course Objectives

To gain an understanding of the benefits of Corrosion Management in relation to safety and asset preservation.

To understand how corrosion management fits into the wider safety framework and helps to comply with safety legislation.

To understand the model process of Corrosion Management and the key features that need to be addressed.

To obtain practical knowledge of methods of implementation and system maintenance.

To have the opportunity to compare current practices with the model process and plan improvements, in a guided exercise.

Course Outcomes

By the end of this course you will:

• Understand the model Corrosion Management process.
• Have learnt about the practical methods for implementation.
• Have had an opportunity to compare the model process with your own.
• Have the knowledge to implement a Corrosion Management process in your own organisation.

Specially Designed For

Materials engineers, corrosion engineers and integrity engineers and their supervisors and managers, especially those moving into roles with responsibility for corrosion management and those seeking to improve existing systems. Those involved in the corrosion management process such as production technologists, inspection engineers, maintenance engineers, and others from operators and service contractors.

Basic knowledge of natural sciences such as chemistry, physics, and chemical or mechanical or materials engineering would be favorable. Some prior understanding of corrosion mechanisms and control methods and of oil and gas production and processing or offshore wind is useful for appreciation of the examples used in this course.

Supported by
Section One - Structured Framework for Corrosion Management
- Why Manage Corrosion
- Health & Safety, Integrity & Corrosion Issues
- Development of the Management Process
- Corrosion Risk

Section Two - Policy & Strategy
- Corrosion Policy
- Corrosion Strategy

Section Three - Organization
- Skills and Competence
- Team Members
- Control, Communication, Competence & Co-operation
- Common Corrosion Management Systems
- Corrosion Awareness

Section Four - Planning & Implementation
- Identify Hazards & Assess Risks
- Existing Assets or New Build
- Assessment of Corrosion Risk
- Inspection and Corrosion Monitoring Process
- Risk Based Inspection
- Key Performance Indicators
- Corrosion Damages Corrective Actions
- Data Management
- Analysis of Data

Section Five - Monitoring and Measuring Performance
- Pre-determined Performance Criteria
- Proactive & Reactive Performance Measurement Performance
- Evaluation of Performance

Case Study-Downhole Corrosion Monitoring System

DAY 1

Section Seven - Audits
- Current Best Practice
- Review of Records of Non Conformances
- Investigation of Cause(s)

Case Study-Plant Aging and Life Extension Program

DAY 2

Program Schedule

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>08:00 – 09:00</td>
<td>Registration (Day1)</td>
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<tr>
<td>09:00 – 11:00</td>
<td>Session I</td>
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<tr>
<td>11:00 – 11:15</td>
<td>Refreshment &amp; Networking Session I</td>
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<tr>
<td>11:15 – 13:00</td>
<td>Session II</td>
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<tr>
<td>13:00 – 14:00</td>
<td>Lunch</td>
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<tr>
<td>14:00 – 15:30</td>
<td>Session III</td>
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<tr>
<td>15:30 – 15:45</td>
<td>Refreshment &amp; Networking Session II</td>
</tr>
<tr>
<td>15:45 - 17:00</td>
<td>Session IV</td>
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<tr>
<td>17:00</td>
<td>End of Day</td>
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Yousuf Memon is the CEO of Reliance Swift Veritas (Pvt) Ltd. with over 35 years of experience in upstream & downstream oil & gas industry, specialized in corrosion & integrity management systems execution and training.

Yousuf Memon has been working for national & international oil & gas exploration, petroleum refineries, petrochemical plants, chemical plants, fertilizer plants, power plants, and desalination plants for several years. Different areas of Mechanical Integrity remained his areas of expertise such as; API plant, Risk-Based Inspection, Failure Analysis, Fitness-For-Services, Non Destructive Testing (Conventional & Advanced), Corrosion Monitoring, Corrosion Inhibitor Injection, Material Selection, Protective Coatings, Material Performance Evaluation, and cathodic Protection System.

He also delivers in-house, public training courses, and distant learning courses on Corrosion Control, Plant Inspection & Mechanical Integrity to local and international up-stream, mid-stream, and down-stream oil & gas industries.
INVESTMENT PACKAGES

Please checklist the package that you are attending!

<table>
<thead>
<tr>
<th>Investment Package</th>
<th>Deadline</th>
<th>Course Fee</th>
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<tbody>
<tr>
<td>Standard Price</td>
<td>14th Nov 2014</td>
<td>SGD 2,250</td>
</tr>
<tr>
<td>Early Bird Offer</td>
<td>17th Oct 2014</td>
<td>SGD 2,150</td>
</tr>
<tr>
<td>Group Discount</td>
<td>14th Nov 2014</td>
<td>10% discounts for group of 3 registering from the same organization at the same time</td>
</tr>
</tbody>
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* To enjoy the promotion & discount offer, payment must be made before deadline
* For 5 or more delegates, please inquire for more attractive package.
* Prices include lunches, refreshments and materials. Promotion & discount cannot be combined with other promotional offers.
* Important: Please note that registration without payment will incur a SGD 200 administration fee.

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Head of Department: __________________________

2nd Delegate Name: ___________________________ Mr. [ ] Mrs. [ ] Ms. [ ] Dr. [ ] Others [ ]
Direct Line Number: __________________________ Email: __________________________
Job Title: __________________________ Department: __________________________
Head of Department: __________________________

3rd Delegate Name: ___________________________ Mr. [ ] Mrs. [ ] Ms. [ ] Dr. [ ] Others [ ]
Direct Line Number: __________________________ Email: __________________________
Job Title: __________________________ Department: __________________________
Head of Department: __________________________

INVOICE DETAILS

Attention Invoice to: __________________________
Direct Line Number: __________________________ Fax: __________________________
Company: __________________________ Industry: __________________________
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Please note:
- Indicate if you have already registered by Phone [ ] Fax [ ] Email [ ] Web [ ]
- If you have not received an acknowledgement before the training, please call us to confirm your booking.

PAYMENT METHODS

- By Credit Card: [ ] Visa [ ] MasterCard [ ] AMEX Security Code: __________________________
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- By Direct Transfer: Please quote invoice number(s) on remittance advice

PetroSync LLP Bank details:
Account Name: PetroSync LLP
Bank Number: 7144 • Branch Code: 001 • Account No: 010-2255-105
Name of Correspondent Bank: Standard Chartered Bank, 6 Battery Road, Singapore 049909
SWIFT Code of Correspondent Bank: SCBLSGSGXXX
All bank charges to be borne by payer. Please ensure that PetroSync LLP receives the full invoiced amount.

Confirmation

I agree to PetroSync’s terms & conditions, payment terms and cancellation policy.

Authorized Signature: __________________________

PAYMENT TERMS: Payment is due in full at the time of registration. Full payment is mandatory for event attendance.