Optimize Your Asset Integrity Strategy for Profit, Reliability and Maintenance Excellence by Implementing Effective Corrosion Control Measures and Improved Monitoring and Inspection Techniques

Integrity Management of Onshore & Offshore Pipelines

Instructor: Mr. Abdelaziz M. Salah Eldin - Hudson Technology and Strategic Studies, Ottawa-Canada

Program Objectives

Identify the different strategies required to ensure that the integrity and reliability of pipelines is effectively managed throughout the entire life cycle from design through decommissioning.

Pipelines Integrity Management is nowadays one of the essential elements of operational excellence that many companies have embraced to maintain the competitive edge in their line of business. The Pipelines Integrity Management PIMS aims to contribute to the successful achievement of the companies’ vision and gives assurance to management and shareholders that the assets integrity is well maintained.

The goal of this course is to bridge the gap between the theoretical and practical knowledge of Pipelines Integrity Management methodology and processes.

The summary of the course objectives is:

- **Maximize** the economic value of the company by optimally design, maintain, operate and decommission pipelines to high and consistent standards using the AIM process.
- **Comprehend** the different strategies required to ensure that the integrity and reliability of pipelines are effectively managed throughout the entire life cycle from design (Pre- FEED) through decommissioning.
- **Understand** the 10 reasons why Pipeline Integrity Management Fails.
- **Explains** in details the basic Assets Integrity Management Modules (8 Modules) and how PIMS can assure pipelines long term availability.
- **Recognize** the different corrosion control options and explains how good corrosion mitigation can reduce the risk exposure and be used as an effective tool to address the life extension requirements of ageing facilities.
- **Clarifies** the organizational interfaces and roles and responsibilities of the relevant technical personnel engaged in the development and implementation of the PIMS.
- **Drives** effective utilization of the corporate accumulated wisdom and lesson learned.
- **Explains** the different inspection and monitoring techniques employed for pipelines and how good measurements may assist in the Risk assessment and control process.
- **Provide** process to measure corporate performance against identified Key Performance Indicators (KPI’s).
- **Discuses** major operator’s advancement in pipelines inspection, operation and decommissioning.

Who Should Attend

The target audience is staff engaged in the design, construction, commissioning and operation of the pipelines:

- Pipelines Maintenance / Inspection / Repair Engineers.
- Pipelines design, construction and operation Engineers
- Corrosion, Inspection and Integrity Engineers.
- Facility, Process and Unit Engineer

Duration

5 Days

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### Training Methodology

- Participant will learn by active interaction during the program through the use of exercises, syndicate and group discussion on the program topics and real life issues.
- Course size will be limited to 12 delegates to allow effective coverage, stimulate group discussion and enable group networking and interaction.
- Throughout the course, participants will be encouraged to discuss their organization specific problems, seek group views and guided to develop their own corrective action agenda for implementation upon returned to their workstations.
- The Instructor will use his patented “**Hudson Express Train Game**” as a tool to measure the participant understanding of the course materials, practice Pipelines Integrity Management process and encourage team building spirit in a competitive and joyful environment.
- The handout material not only includes 400 plus power point slides but also include a carefully designed text of 130 pages which explain all technical matters discussed during the 5 days

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<td>Pipeline Flow Assurance Problems</td>
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<td>Introduction of Instructor and Participants</td>
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<td>- Monitoring &amp; Inspection</td>
<td>Monitoring &amp; Inspection</td>
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<td><strong>Exercise I (Team Building)</strong> Implementation</td>
<td>Written Scheme of Examination</td>
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**Day 2**

- Tactical Review and Audit
- Experience Gained and Lessons Learned

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**Exercise II (Express Train Game Part A)**

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About Our Instructor

Mr. Abdelaziz M. Salah Eldin Integrity Management Consultant Hudson Technology and Strategic Studies, Ottawa-Canada

Mr. Abdelaziz is currently the Integrity Management Consultant at Hudson Technology and Strategic Studies based in Ottawa, Canada. He has 30 years of experience in the upstream and downstream oil and gas operation and project management interfaces. His experience includes integrity management of pipelines, topside facilities and subsurface equipment.

During his career, Mr. Abdelaziz has presented 47 technical papers in international and regional conferences and developed over 45 technical specifications and manuals in different engineering crafts, quality assurance (QA) or quality control (QC), Corrosion & Corrosion Control and Integrity or Quality Management. He has been a project manager and team member for over 30 major integrity management audit and competency analysis projects in association with leading service providers. He has worked for other leading operators including GUPCO, BP/Amoco, ENPPI, Geisum Oil Company, Solus Ocean and many others until recently he became the Integrity Management Advisor, Technical Excellency Team, for Abu Dhabi Marine Operating Company ADMA-OPCO operated in the UAE.

Mr. Abdelaziz had made a major contribution to the development of assets corrosion management strategies or philosophies and relevant integrity assurance issues for many major operators. He has also done more than 20 public training courses and interactive workshops in the subject technical topics including Quality Management System “Managing for the Sustained Success and Organizational Excellency”, Asset Integrity Management “Aligning Asset Management Strategies With The Corporate Objectives”, Pipeline Integrity Management Corrosion and Corrosion Control in Oil and Petrochemical Industries as well as Fundamentals of Industrial Coatings and Non Metallic Materials.

In addition to public courses, Mr. Abdelaziz had also completed many in house courses specifically tailored for CAMS graduates of ADNOC group of companies hosted by ADMA-OPCO and ADGAS. He has done trainings in various locations in the world including United Arab Emirates, Malaysia, Indonesia, Vietnam, India, Czech Republic and Qatar. He holds a M.Sc. Degree in chemistry and an MBA in Project Management and Strategic Planning from the University of North Carolina, USA.

Partial list of companies that have benefitted from Mr. Abdelaziz’s expertise:

- Abu Dhabi Company for Onshore Operation ADCO
- Saudi ARAMCO
- Saudi Basic Industries Corporation SABIC
- Abu Dhabi Marine Operating Company ADMA-OPCO
- Abu Dhabi Gas Liquefaction Limited ADGAS
- Zakum Development Company ZADCO
- Petroleum Development Oman PDO
- PETRONAS
- Salamander Oil Company, Indonesia
- South East Gas Transmission Company (Petrovietnam Gas)

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