

In this course ABS Consulting, an affiliate of the American Bureau of Shipping, will teach you how to develop cost-effective asset integrity management plans for floating offshore facilities by focusing on the following key elements:

Introduction to Asset Integrity Management
Understanding Risk Based Inspections
Understanding Mechanical and Structural Integrity
Understanding the HAZID Process
Understanding Safeguarding Systems
Understanding the role of Management of Change
Developing an Integrity Management Plan
Developing an In-service Inspection Plan

Course Description

At the end of the course the participants should:

- Understand what AIM is and how it can help improve facility reliability.
- Better understand how structures and static equipment deteriorates and fails.
- Know how to link deterioration to inspection tasks.
- Know different types of analysis tools and how to apply them to AIM.
- Understand differences between prescriptive inspections and RBI and where each is applicable.
- Be able to develop AIM plans for structure and process static equipment.

Exercises and workshops are used throughout the courses to illustrate interpretations of the requirements and demonstrate ways to allow the participants to practice the AIM processes and associated tools.

In a 3-day session, our instructors will lead you through the following topics:

Day 1 – Building a Foundation

Introduction to Asset Integrity Management:

- The needs, benefits and justifications
- Improving safety and efficiency

Understanding Risk Based Inspections:

- Increased safety and environmental protection
- Improved operating efficiency and reduced downtime
- Maximized return on investment

Understanding Mechanical and Structural Integrity:

- Defining site-specific conditions - environment, loadings, process
- Identifying and determining deterioration mechanisms
- Linking deterioration mechanisms to failure modes using a System Breakdown Structure

Day 2 – Learning the Processes

Understanding the HAZID Process:

- Brainstorming procedures and guidelines
- Hazard registers and criticality ranking
- Risk assessments and consequence ranking

Understanding Safeguarding Systems:

- Process equipment
- Structures – internal, external, submerged
- Passive and active safeguarding

Understanding the role of Management of Change:

- The need for procedures, and the difference between temporary and permanent changes
- Impacts on the Integrity Management Plan
- Engineering, safety, and operations impacts

Day 3 – Bring it All Together

Developing an Integrity Management Plan:

- Defining scope, establishing a team, and creating an equipment list
- Collecting process, equipment, operating, and environmental data
- Reviewing performance, maintenance, failure and inspection history
- Performing the risk analysis, interpreting and communicating results
- Optimized protection systems
- Developing a management plan

Developing an In-service Inspection Plan (ISIP):

- Relationship to the Integrity Management Plan
- Involvement of Regulators
- Prepare annual inspection work scopes / workbooks
- Analysis, interpretation of results, and reporting
- Recommending actions based on findings
- Feeding back to the Integrity Management Plan

Course Dates and Location

Where: ABS Consulting Headquarters at 16800 Greenspoint Park Drive, Houston, TX, 77060

When: Wednesday February 22 to Friday February 24, 8:00 am through 4:00 pm

Costs

The cost to attend, including training material is \$1195.00 per person

If you are interested in this course and would like more information or would like to make a booking, please fax or e-mail the information below:

Fax to 281-673-2789 or e-mail the information to bgibbs@absconsulting.com

Name: _____ Phone: _____

Fax No.: _____ Company: _____

e-Mail: _____ Address: _____

Indicate your interest below

Please register me for this class: _____

Please call me to discuss the class in more detail. _____

Please add me to your contact list for future courses like this: _____

If you would prefer to talk to someone about this class now, please phone Brian Gibbs on 281-673-2765