

ASSET INTEGRITY MANAGEMENT

Maximizing the Value of Assets for Profit, Reliability & Maintenance Excellence and Regulatory Compliance

Holiday Inn, Glenmarie

14, 15 & 16 November 2011

HRDF
SBL Claimable



YOURS TO KEEP

3 Free E-Books;

- Maintenance Best Practices and Benchmarking-A Profit and Customer-Centered Approach
- Maximizing Maintenance Operations for Profit Optimization
- Maximizing the Value of Your Facilities Management Operation

Extensive Benchmarking & Productivity Tools

- The Scoreboard for Maintenance Excellence
- The Scoreboard for Facilities Management Excellence
- The CMMS Benchmarking System
- The ACE Team Process for Estimating Maintenance Work
- Over 10 templates for reliability analysis

COURSE LEADER

- ✓ Pete received his BSIE and Masters in Management Information Systems from North Carolina State University.
- ✓ Over 35 years of practical engineering expertise, operations management and maintenance international experience at the shop floor level and corporate levels. Has taught companies in the US, Middle-East and Asia.
- ✓ He has served two manufacturing operations (Cooper Tools Crescent/Xcelite and Channel Master) as a Plant Manager.
- ✓ As Director of Facilities Management, he managed a 225-employee physical plant operation for the State of North Carolina.
- ✓ He is also the author of over 200 articles and publications. Pete is currently a frequent speaker worldwide and for his company as a presenter/facilitator and has delivered presentations on manufacturing and maintenance-related topics worldwide in over twenty countries.



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BENEFITS

Key Benefits Asset Integrity Management topics covered will help each delegate to;

- Optimize inspections with risk-based practices and Non Destructive Testing (NDT)
- Define reliability & maintenance excellence best practices and integrate with AIM strategies
- Extend intervals between planned outages and deduce forced outages
- Increase asset and over all plant availability and capacity
- Reduce critical asset life cycle cost and overall plant maintenance cost.
- Use in-service inspection with routine operator based and specialist surveillance
- Condition-based Maintenance including optimization studies and RCM
- Vibration Induced Fatigue Failure solutions
- Pipeline Integrity Management

Additional Benefits

- Maximizing reliability, availability and maintainability of equipment
- Improved understanding of asset condition
- Improving safety and reducing risk
- Improved efficiency of asset management
- Enhancing plant operations, performance and profit
- Optimizing maintenance and inspection costs
- Improving personnel safety and performance
- Optimizing sparing and MRO Materials Management
- Compliance with corporate and industry regulation and legislation
- Improving technical personnel's knowledge, know-how and hands on expertise

OVERVIEW

Mission-critical asset integrity management (AIM) topics from this course will help all operations optimize safety and profits, to mitigate challenges, improve reliability and maintenance and production performance. A successful upstream Asset Integrity Management program incorporates design, maintenance, inspection, process, operations, and management concepts. All these disciplines impact the integrity of infrastructure and equipment.

You will review the best practices required to achieve a comprehensive, fully integrated system for asset integrity with a plant culture directed at gaining greater lifetime asset effectiveness, true value, safety, availability, and increased profitability from production and manufacturing assets.

You will take away key tools for improving Asset Integrity Management, including design considerations, process safety management (PSM), mechanical integrity, risk based inspection (RBI) and maintenance excellence, operational and process support, corrosion, metallurgy, risk analysis, root cause analysis (RCA) and principles of Continuous Reliability Improvement (CRI) and much more. The electronic references you receive will provide an unsurpassed knowledge base for application of session topics.

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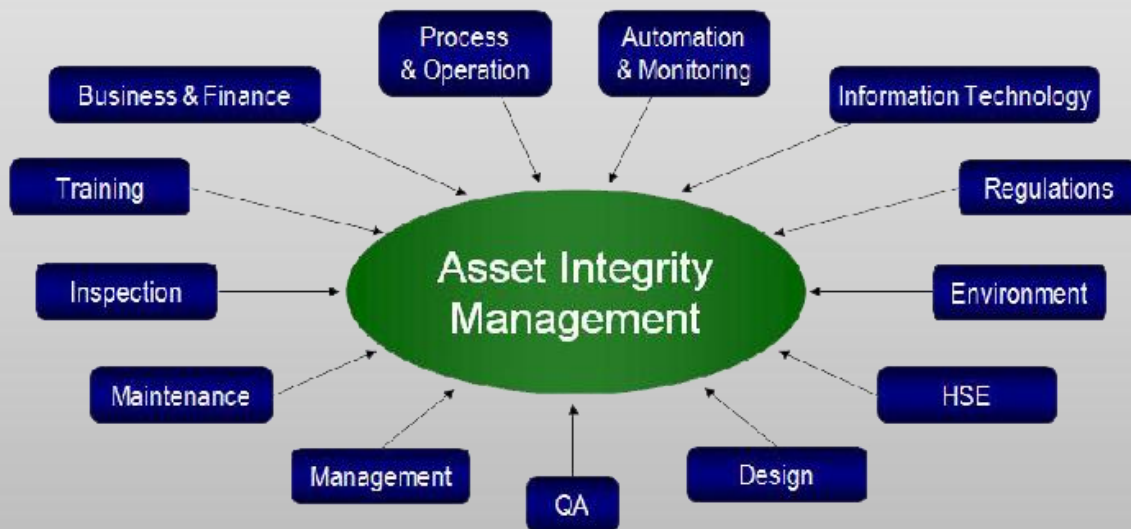
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SCOPE

The scope of Asset Integrity Management program is very broad. To be successful it must incorporate asset design, maintenance, monitoring, inspection, process, operations, information technology and management concepts, since all these disciplines impact the integrity of infrastructure and equipment.



WHY ATTEND?

This is today's newest and most practical course for Asset Integrity Management (AIM) that brings together all elements and best practices that must be integrated into a successful AIM process. A course you must attend to stay abreast of international standards and best practices. Profit optimization requires effective physical asset management from design, selection, maintenance, inspection and renewal. In turn, asset integrity plays a key role in determining the operational performance, safety and profitability of your industry. Asset Integrity is the ability of an asset to perform its required function effectively and efficiently whilst safeguarding life and the environment.

The related management activities ensure that the people, systems, processes and resources which deliver integrity, are in place, in use and fit for purpose over the whole lifecycle of the asset. This course is about providing solutions that ensure that the integrity of engineered systems (for instance, offshore structures, ships, pipelines and process systems within refineries, gas plants) is maintained throughout the anticipated service life.

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ASSET INTEGRITY MANAGEMENT

SCHEDULE

DAY 1

Introduction and Team Assignments for AIM Presentation

- . Teams Formed & Top 5 Areas for AIM Improvement Established
- . Teams Work Next 2 Days
- . Why TeamWork Works?

Modern Approaches to Asset Integrity Management (AIM)

- . Sad Lessons Learned from Case Studies Around the World
- . Delegate Discussion of Actual Examples
- . Overview Key International Standards; ISO, PAS 55, API, NACE, NFPA, ASME etc.
- . Asset Integrity Management: Make it "Total Asset Integrity Management" TAIM)
- . Management versus Leadership: Become a Physical Asset Integrity Leader.
- . Continuous Reliability Improvement (CRI) and How It Supports TAIM

Basics of Asset Management and Asset Integrity

- . Asset Management versus Asset Integrity
- . Defining Asset Criticality
- . Risk Assessment Techniques
- . Life Cycle Costing
- . Delegate Exercise and Case Study: BP Texas City Refinery Explosion

Reliability Centered Maintenance (RCM)

- . Principles of RCM
- . The Seven Key Elements of RCM
- . Delegate Exercise: Gas turbine exhaust stack
- . Reliability Analysis
- . Summary Proven Tools that support AIM
- . Root Cause Analysis (RCA)
- . Failure Mode and Effect Analysis (FMEA)
- . Delegate Exercise: Conduct a RCA and FMEA

Reliability Analysis

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- . Root Cause Analysis (RCA)
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DAY 2

Reliable Maintenance Planning, Estimating & Scheduling of AIM Resources

- Benefits of Effective Planning/Scheduling to Asset Management
- How to Measure and Improve Asset Productivity
- How to Measure and Improves Craft Labor Productivity
- Delegate Exercise: Determining possible Gained Value of
- Craft Productivity
- Asset Productivity

Maintenance and Asset Information Systems

- Asset Integrity Monitoring Systems
- Using CMMS/EAM for AIM and Maintenance Excellence
- Software Tools for Continuous Monitoring and Condition Based Maintenance (CBM)
- Delegate Exercise: Complete the CMMS Benchmarking System spreadsheet for their current CMMS

Measurement of Asset Integrity Performance

- Keys Metrics (KPI's) for AIM and Overall Maintenance Excellence
- Develop Your Reliable Maintenance Excellence Index
- Delegate Exercise: Develop KPI's for Asset Integrity

DAY 3

Maintenance Optimization Starts With "Where You Are Right Now"

- Benchmarking Current Maintenance and Reliability Performance
- The Scoreboard for Maintenance Excellence
- The CMMS Benchmarking System
- Develop a Successful Asset Integrity Strategy
- Implementing a Total Asset Integrity Management Process
- Key elements of AIM Strategy
- Design and maintenance,
- Monitoring and Inspection
- Process and Operations
- Information Technology and Leadership Requirements

Overview of Risk Based Maintenance (RBM)

- How RBM Expands Scope of RCM
- AIM and RBM

Team Presentations:

- Delegate Exercise: Delegates will define their Top 5 Areas for Improvement as a Team (of 3-4) they will review all individual issues and identify action plans to present to the class and their management.
- Objective is to implement course topics from this AIM course>

MANY CASE STUDIES AND EXERCISES!!!

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COURSE LEADER



As an all round guru of maintenance and reliability, **Ralph W. "Pete" Peters** has over 35 years of practical engineering expertise, operations management and maintenance international experience at the shop floor level and corporate levels. Pete has taught companies in the US, Middle-East and Asia.

He is the Founder/President of The Maintenance Excellence Institute (TMEI) and has helped operations such as BritishPetroleum, UNC-Chapel Hill, Air Combat Command, Boeing, Heinz, General Foods, BigLots Stores, Marathon Oil, Polaroid, Great River Energy, Wyeth-Ayerst, Cooper Industries, National Gypsum, Lucent Technologies, Carolinas Medical Center and the US Army Corps of Engineers achieve success in plant, fleet, healthcare and facilities maintenance operations.

During his career he has performed over 300 Scoreboard for Maintenance Excellence assessments in over 20 countries. He has served two manufacturing operations (Cooper Tools Crescent/Xcelite and Channel Master) as a Plant Manager. As Director of Facilities Management, he managed a 225-employee physical plant operation for the State of North Carolina.

He also served as Director, Productivity Management Division, NC Department of Transportation and helped establish the first fleet maintenance management system in US. Pete is author for Maintenance Benchmarking and Best Practice from McGraw-Hill, The Guide to Computerized Maintenance Management Systems , two E-Books and four maintenance chapters in various handbooks.

He is also the author of over 200 articles and publications. Pete is currently a frequent speaker worldwide and for his company as a presenter/facilitator and has delivered presentations on manufacturing and maintenance-related topics worldwide in over twenty countries. Pete received his BSIE and Masters in Management Information

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