

ISO 55000

Asset Management International Standard

Improve Your Asset Management Performance From The Certified Facilitator For ISO 55000 Standard

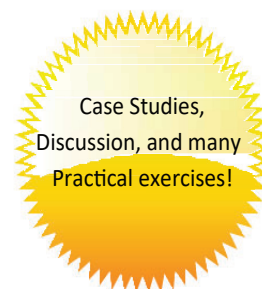
03rd - 05th July 2023 at Bandung / Jakarta, Indonesia | 13th - 15th December 2023 at Kuala Lumpur, Malaysia



Petrosync Distinguished Instructor

Ahmed D., PHD, CMRP, CRE, PE.

Asset Management Expert



Position and Credentials:

- Certified through the Institute of Asset Management (UK) as organization preparation facilitator / service provider respectively for the ISO 55000 (Asset Management) and ISO 31000 (Risk Management) standards.
- Certified Maintenance & Reliability Professional (CMRP)
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- Certified Facilitator (GE)
- Certified Presenter and Public Speaker (GE)



WHY YOU SHOULD ATTEND PETROSYNC'S EVENTS

- To ensure that all objectives of the course matches yours, all PetroSync programs are developed after intensive and extensive research within the industry
- PetroSync programs focus on your immediate working issues to ensure that you are able to apply and deliver immediate results in real work situations
- Application and implementation of industry knowledge and experience are the drivers for our course design, not theoretical academic lectures
- PetroSync training focuses on practical interactive learning tools and techniques including case studies, group discussions, scenarios, simulations, practical exercises and knowledge assessments during the course. Invest a small amount of your time to prepare before attending the course to ensure maximum learning
- PetroSync follows a rigorous selection process to ensure that all expert trainers have first-hand, up-to-date and practical knowledge and are leaders of their respective industrial discipline



HEDGE CONNECTION
Where Hedge Funds and Investors Come Together

Worldoils

PETROFINDER
Global Oil & Gas Link

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PetroEnergy
WINDOW TO INDOONESIAN OIL, GAS & ENERGY BUSINESS

CONFERENCE
locate.com

Energy UPDATE
Voice of Energy Sector

IACCM
International Association for Contract and Commercial Management

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Course Overview

Asset management has historically been viewed from a financial perspective only. Industrial professionals from both the operations and maintenance disciplines have developed the new asset management international standard (ISO 55000) to better reflect the broader sense of asset management which includes human assets, physical assets, and other non-tangible assets that together form the organization and have not been formally utilized to their potential and or optimized to deliver the highest yield at the lowest possible cost to the organization. This workshop is an introductory workshop to the new international standard ISO 55000, 1, 2 which is aimed at bringing awareness of the standard, its elements, implementation and benefits within the organization. The workshop also covers the integration between asset integrity management (AIMS) elements and the strategic asset management plan (SAMP) as defined in ISO 55000.

Course Objectives

This course will objectives as follows:

- Attendees will learn how to develop and implement a strategic asset management plan successfully
- Understand the tools involved in industrial asset management
- Develop the necessary skills to successfully analyze and determine specific asset requirements in light of business goals
- Understand and learn about the international standard ISO 55000:2014 and its practical implementation
- Integrating Asset Integrity Management tools (RCM, RBI, CMS, MoC, Culture change, RCA, CSMMS, IPF, Action tracking and KPIs) into the SAMP

Specially Designed For

This course specially designed for the following disciplines:

- Maintenance and Operations Managers
- Engineering Managers
- Maintenance Planning Managers
- Asset Management Professionals

Each attendee must bring a **Laptop Computer** with Microsoft Operating System and **Scientific Calculator**

Petrosync Quality

Limited Attendees

The course has limited seats to ensure maximum learning and experience for all delegates.

Certificate of Attendance

You will receive a Certificate of Attendance bearing the signatures of the Trainer upon successful completion of the course. This certificate is proof of your continuing professional development.

Interactive Training

You will be attending training designed to share both the latest knowledge and practical experience through interactive sessions. This will provide you with a deeper and more long-term understanding of your current issues.

High Quality Course Materials

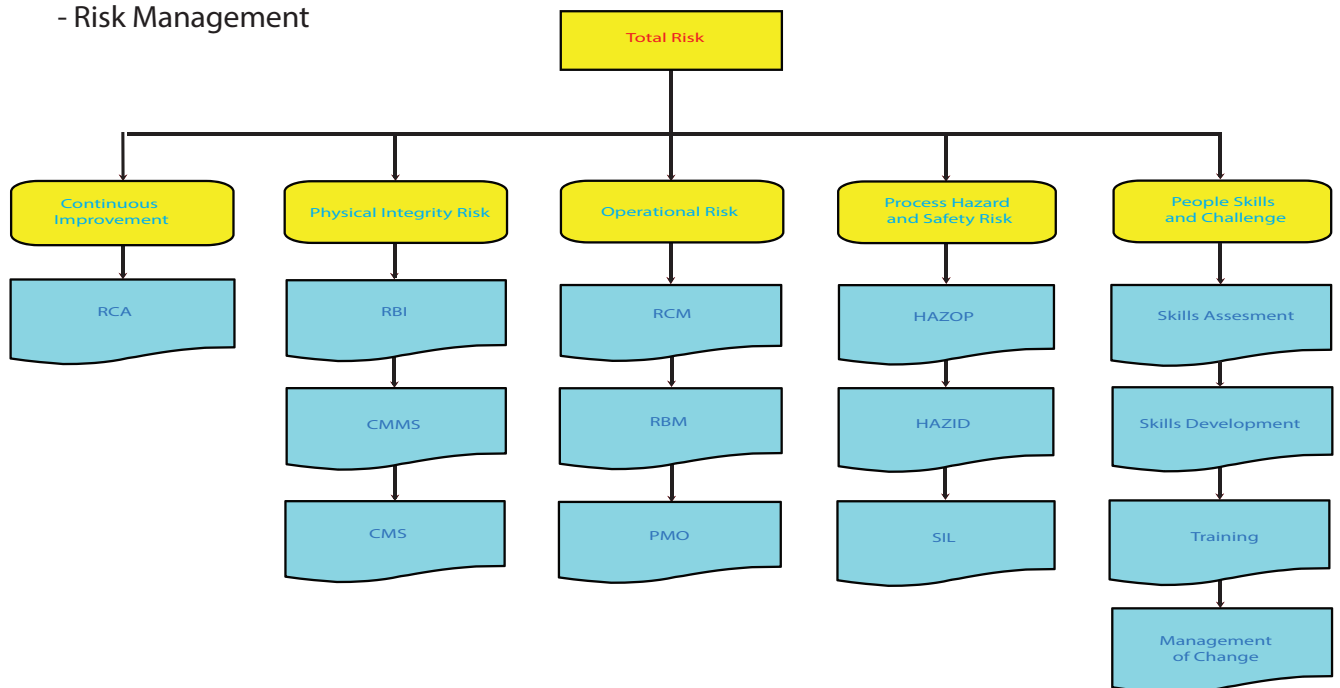
Printed course manual will provide you with working materials throughout the course and will be an invaluable source of reference for you and your colleagues afterward. You can follow course progress on your laptop with soft copies provided.

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Course Topics

- Defining assets and asset management
- Developing a strategic asset management plan (SAMP)
- Implementing the program components
- Learning about AIMS components
 - Leadership
 - Design Integrity
 - Technical Integrity
 - Operational Integrity
 - Management of Change
 - Process, Procedures and Practices
 - Contracts and Procurement
 - Competency, Training and Knowledge Management
 - Communication and Interfaces
 - Review and Audit (Performance Measurement/KPIs)
 - Risk Management



PROGRAM SCHEDULE

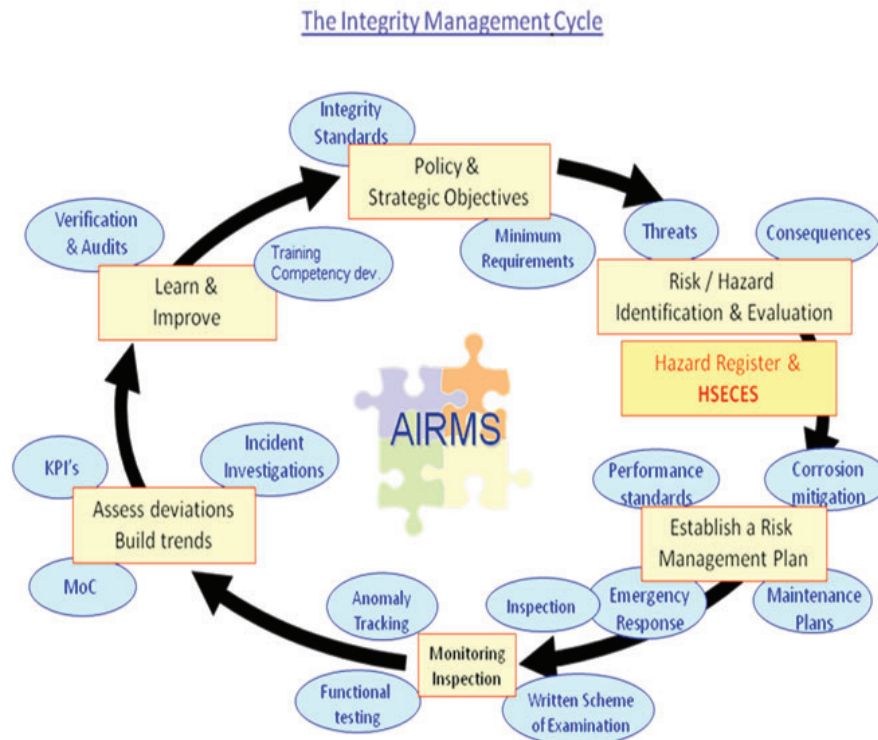
08:00	Registration (Day1)
08:10 – 10:00	Session I
10:00 – 10:15	1 st Tea Break
10:15 – 12:30	Session II
12:30 – 13:30	Lunch Break
13:30 – 15:00	Session III
15:00 – 15:15	2 nd Tea Break
15:15 – 16:00	Session IV
16:00	End of Day

**Schedule may vary for each training*

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Asset Integrity Management (AIMS) Components:



- **CMS: Corrosion Management System.** A comprehensive system used in coordination with the RBI to anticipate corrosion likelihood, locations and impact in order to prevent or mitigate corrosion effects on critical equipment. It is developed and managed by the Corrosion and Inspection Department.
- **RBI: Risk-based Inspection.** A statistical and observation-based system to optimize inspection routines for the highest level of integrity assurance. This is managed and used by the Corrosion and Inspection Department.
- **RCM: Reliability-centered Maintenance.** A program of prioritized and monitored equipment maintenance and conditions to optimize maintenance resources to assure reliability of operations and the integrity of the equipment. This is managed and used by the Maintenance Division.
- **RCA: Root Cause Analysis.** A formal incident investigation method incorporating multi-disciplinary technical teams and a structured problem-solving procedure to find underlying “latent” or organizational causes for deviations from expectations. Correcting deficiencies that are found with this process results in organization-wide improvements instead of localized repair of a specific problem. This is maintained and facilitated by the Performance and Reliability Department, but it is used in all Departments.
- **CSMMS: Concrete Structures Maintenance Management System.** This system provides for proactive intervention in maintaining the integrity of critical foundations and structures, including vessel foundations and storage tanks.
- **MoC: Management of Change.** This is a formal process to ensure that all changes made are positive and achieve their desired results. It is used primarily for major changes to processes, people, or equipment. A Corporate Procedure and form may be used for any change in. More detailed procedures for MoC related to large projects or plant changes are contained in the Projects Manual and the Engineering Modifications Manual. The New Asset Life Cycle Requirements assure consideration and tracking of key items for the entire life-cycle of critical components in new projects.

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- **IPF: Instrumented Protective Functions.** Highly critical functions in the plant that are protected through automated instrumentation systems. These require an extremely high level of reliability. These are identified and monitored through the HSE-CES Register.
- **Action Tracking:** A consistent and time-based mechanism to follow actions required to close gaps in performance or correct causes discovered through an RCA study. A matrix of all open actions, progress, completion dates and responsible parties is used to organize corrective action measures across a Department or business process.
- **KPI's: Key Performance Indicators.** Leading and Lagging indicators of success in a process or activity. These are essential for the management of a safety, integrity and reliability system to provide operators and managers with indications of the proper functioning of their operations. KPI's start at equipment levels and cascade upward into more general management attributes, culminating in the Corporate Performance Contract KPI's.

Training Agenda

Day 1 :

- Introduction
- Definition of assets, asset management and asset management systems (ISO 55000:2014)
- Tools used in asset management and the relation with asset integrity management
 - RCM
 - RBI
 - CMS
 - MoC
 - Culture change
 - RCA
 - CSMMS
 - IPF
 - Action tracking
 - KPIs
- Understanding the Strategic asset management plan (SAMP)
- **Case Study - Understanding your assets and asset portfolio and determining the risk associated to operation**

HYBRID TRAINING SOLUTIONS

FOCUS TRAINING • REDUCE COST • ENHANCED RESULTS

Over the years, there has been a growing demand for hybrid training programs. It is an excellent option to maximize your training dollar for your specific training needs. We make it possible to run a training program that is customized totally to your training needs at a fraction of an in-house budget!

If you like to know more about this excellent program, please contact us on +65 3159 0800 or email general@petrosync.com

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Day 2 :

- Understanding the use of asset management and asset integrity management tools
 - Criticality and Risk
 - Risk Associated to production
 - Risk associated to maintenance or lack there of
 - Risk associated to health safety and environment
 - Developing a risk matrix (Probability, Consequence and Detectability)
- Developing a successful strategic asset management plan based on identified risks and needs of individual
 - Identifying business goals and aligning activities
 - Lifecycle cost
 - Maintenance Strategy tools
 - Balancing activities, needs and cost
 - Operation demand and maintenance requirements – finding the balance
 - People skills and skill management programs
- Case Study - Developing a Strategic Asset Management Plan (SAMP) to manage your asset portfolio risk

Day 3 :

- Successful implementation of strategic asset management plans
 - Task Development
 - Detailed task writing
 - Developing your CMMS system
 - Inspection programs and operator driven reliability
- Pitfalls that should be avoided
 - Overdoing it with tasks
 - KPIs that make sense
 - Balanced score cards
 - Updating studies and continuous improvement
- Final notes on techniques and technologies
 - Tools and techniques to simplify inspection
 - Tools and techniques to build a visual inspection program
 - Skills matrices and successful implementation and integration
- Case study - Implementing your SAMP successfully and following up on your implementation

IN-HOUSE SOLUTIONS

SAVE COST • IMPROVE PERFORMANCE • REDUCE RISK

PetroSync understands that in current economic climate, getting an excellent return on your training investment is critical for all our clients. This excellent training can be conducted exclusively for your organization. The training can be tailored to meet your specific needs at your preferred location and time. We will meet you anywhere around the globe.

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Petrosync Distinguished Instructor

Ahmed D., PHD, CMRP, CRE, PE.

Asset Management Expert

Ahmed is the CEO and President of Operational Excellence Experts Consultant and Training with 20 years experiences in asset management, technical asset integrity management, asset management, maintenance and reliability.

Ahmed is a Member on several committees of the ISO 55000 standard development. He is Founder and Chairman of the board of the Egyptian Society for Asset Management Professionals.

Ahmed Developed Reliability Departments and consulting divisions for GE (Bentley Nevada), Meridium, SKF in Middle East and Africa as well as several customer companies

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➔ Publications:

- Introduction to and implementation of International Standard ISO 55000:2014 – Asset Management (Arabic / DPIC publications Egypt 2014).
- Introduction to and implementation of International Standard ISO 14224:2006 – Reliability and Maintenance Data Management and Transfer (Arabic / DPIC Publications 2014)
- Introduction to and implementation of International Standard ISO 31000:1998 – Risk Management (Arabic / DPIC Publications 2015).

➔ Partial Client Lists:

- Saudi Aramco
- Egyptian Ethylene and Derivatives Company
- GASCO
- ARAMCO - KSA (East West Pipeline)
- ADGAS
- ADMA – OPCO
- OMV Petrom
- Middle East Refining Company
- KNPC
- Khartoum Refining Company
- Alexandria Mineral Oil Company
- Pharonic Oil Company
- Galaya Metal
- Ideal Standard
- Smart Villages Development and Management Company
- Amerya Petroleum Refining Company
- Qatar Aluminum
- Emal
- UGDC
- Raya Network Services

