

ASSET MANAGEMENT COUNCIL

ASSET MANAGEMENT FUNDAMENTALS

Perth: Thursday, 23rd February 2012
Venue: Engineers Australia
712 Murray Street, West Perth, WA 6005



This one day course will provide participants with an understanding of how their businesses can benefit from effective asset management capability.

About the Trainer

Ernst Krauss, Principal Reliability Engineer, Woodside Energy Ltd. Ernst has more than 30 years experience in Petrochem, Mining and general Industries in Instrumentation and Electrical Engineering, both Overseas and in Australia, and in Reliability and Maintenance Engineering (10 years +). In his current position, his responsibilities include leading a team of Maintenance Professionals providing Reliability and Maintenance Management and Engineering leadership and services to the functional Assets of Woodside Energy Ltd. He is outcome oriented with attention to detail as is required for analysis work, but he also applies conceptual and system thinking as well as his technical skills to solving problems at the strategic level.



Training Program

08:15 Registration
08:30 Introduction
08:55 Module 1: Asset Management Overview
09:45 Module 2: Asset Management Within a Quality Framework
10:15 Morning Tea
10:45 Module 2: Asset Management Within a Quality Framework
11:45 Module 3: Leadership and Culture
12:20 Module 4: Risk, Reliability and Life Cycle Cost
12:45 Lunch
13:15 Module 4: Risk, Reliability and Life Cycle Cost
13:45 Module 5: Design for the Life Cycle
14:45 Module 6: Maintenance in the Life Cycle
15:05 Afternoon Tea
15:20 Module 6: Maintenance in the Life Cycle
16:45 Summary and Review

Course Overview

At the end of this course participants will have covered the following topics:

Module 1: Asset Management Overview

Definitions of engineering assets and approaches to their management are provided along with an examination of the AM Council concept of **Capability Assurance**. A model of engineering asset management and its relationship to capability assurance and the sustaining four principles is explained.

Module 2: Asset Management within a Quality Framework

The definitions from Module 1 are related to evolving standards such as PAS 55-1 and ISO/IEC 15288. A simple top level business model including the placement of asset management is discussed. A hierarchy of models is provided including planning, lifecycle and technical processes. These are related to the AM Council capability assurance model and typical examples discussed.

Module 3: Leadership and Culture

Leadership and organisational culture have a significant impact upon an organisations ability to sustain good asset management practice. This section provides an overview of these factors in Asset management.

Module 4: Risk, Reliability and Life Cycle Cost

A brief description of risk is followed with an examination of risk across the asset lifecycle. The risk management process defined in Australian Standard AS 4360 is described along with technological risk identification and analysis mitigation practices. Key risk tools including FMECA and FTA/ETA are noted and their application to engineering asset management explored. Asset reliability and availability and their role in technological risk management is described. The purpose and origins of Life Cycle Costing are explored and likely approaches to costing the different stages of the asset lifecycle tested.

Enquiries to the Team at the Asset Management Council

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Module 5: Design for the Lifecycle

The importance of design in the asset lifecycle and its influence on future cost is examined. The role of business risk based solutions to performance requirements and the role of engineering authority and standards in that process are examined. The importance of systems engineering and configuration management are explored. The key role of capability assurance through out the asset lifecycle is emphasised using the asset technologies process model. The critical function of information throughout the lifecycle and the need to manage information as an asset is emphasised.

Module 6: Maintenance in the lifecycle

The role of maintenance in the asset lifecycle its definition and its objectives are reviewed. Types of maintenance and their placement within a model of maintenance are also explored. Some applied business risk based decision processes such FMECA, RCM and Whole of Life Cost applicable to various types of maintenance actions and asset classes are examined. The role of leadership and culture including some successful case studies are also described.

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General Information

Lecturer: All Asset Management Council lecturers have many years experience in the relevant industry. Lecture details will be provided on confirmation of course.

Registration: To qualify for Early Payment discount, your registration form WITH PAYMENT must be received at the Asset Management Council, PO Box 2249, Hawthorn, VIC 3122 at least 6 weeks prior to course date. Attendance at course is available when registration payment has been received in full. Phone bookings are accepted but places are confirmed only on receipt of payment in full. A purchase order does not quantify for early discount, unless accompanied by payment.

Fee Includes: Attendance at course, notes, tea and coffee on arrival, morning and afternoon tea and lunch.

Cancellations and Refunds:

Refunds: Cancellation more than 28 days before the event: 100% refund.

Cancellation less than 28 days, but more than 14 days: 50% refund. Cancellation less than 14 days, no refund.

Cancellation must be in writing. The effective date is the date of dispatch.

Substitution: If, after booking an event you are unable to attend, you are welcome to nominate someone else to attend in your place at no additional cost.

Please advise substitutions in writing so a correct name tag will be available at the registration desk.

Fees are totally refundable should the Asset Management Council find it necessary to cancel a course. Refund of fees is the full extent of Asset Management Council's liability in these circumstances.

Comments on the course from previous participants:

"Best part of course was knowledge of techniques applied and lessons learnt"

"It was valuable over viewing the majority of asset management concepts so that AM is easier in the future"

"Comprehensive subject matter covered in a short time but with great insight"

COURSE REGISTRATION FORM

Title: First Name: Last Name:

Company: Job Title:

Postal Address:

Suburb: Post Code: State:

Phone: Fax: Mobile:

Email:

Perth, Thursday 23rd February 2012 Venue: Engineers Australia, 712 Murray Street, West Perth

REGISTRATION FEE: \$770 incl GST, AM Council Member \$935 incl GST, Other delegates

DISCOUNT: EARLY PAYMENTS received 6 weeks prior to course will receive a \$55.00 (GST Inclusive) discount

[] Enclosed is my cheque/bank draft/purchase order made out in Australian Dollars to the Asset Management Council

OR Please debit my: [] Mastercard [] Diners [] Visa [] Amex

Card Number:

Name on Card:

CVV2 No. on Card: Expires:/..... Signature:

Please complete and return to: Asset Management Council
PO Box 2249 Hawthorn VIC 3122 or Fax: 03 9819 2615, or Email: training@amcouncil.com.au