

# ASSET MANAGEMENT COUNCIL

## ASSET MANAGEMENT FUNDAMENTALS

**Sydney:** Tuesday, 18 May 2010  
**Venue:** SMC Conference & Function Centre  
66 Goulburn Street, Sydney NSW 2000  
**Time:** 8.15 am to 5.30 pm



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

### About the Trainer

#### Terry Howard

Terry Howard has an electrical engineering background with post graduate studies in Asset Management and holds a Masters of Systems Engineering. He has over 15 years experience in the practical application of Asset Management principles in the NSW Rail Industry. He was key contributor to RailCorp's success in twice winning the MESA Maintenance Excellence Award through the introduction of cultural change to maintenance practices. He is an active member of MESA's Sydney Chapter.



### Learning Outcomes

At the end of this course participants will be able to (in the context of the learning activities within the course):

#### Module 1: Asset Management Overview

Definitions of engineering assets and approaches to their management are provided along with an examination of the MESA/AMC concept of **Capability Assurance**. A model of engineering asset management and its relationship to capability assurance and the sustaining four pillars 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 MESA/AMC capability assurance model and typical examples discussed.

#### Module 3: 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.

### Training Program

08:15 – 08:30 Registration  
08:30 – 08:55 Module 0 - Introduction  
08:55 – 09:45 Module 1 - Asset Management Overview  
09:45 – 10:15 Module 2 - Asset Management within A Quality Framework  
10:15 – 10:30 Morning Tea  
10:30 – 12:20 Module 2 - continued  
12:20 – 13:35 Module 3 - Risk, Reliability and Life Cycle Cost  
12:40 – 13:10 Lunch  
13:10 – 14:35 Module 4 - Maintenance In The Life Cycle  
14:35 – 15:00 Module 5 - Design For The Life Cycle  
15:00 – 15:15 Afternoon Tea  
15:15 – 16:10 Module 5 - continued  
16:10 – 16:25 Module 6 - Summary and Review  
16:25 – 17:05 Exam and Close

**Enquiries to:** AM Council Team

Phone: +61-3 9830 4899. Fax: +61-3 9880 7511

Email: [info@amcouncil.com.au](mailto:info@amcouncil.com.au)

[www.amcouncil.com.au](http://www.amcouncil.com.au)

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*"Your professional pathway to asset management excellence"*

**Module 4: 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.

**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: Summary and Review**

A successful case study of change based on the described asset management models is presented and the reasons for success explored. Benchmarking opportunities in asset management are discussed. A short assessment of core concepts is undertaken.

**General Information**

**Registration:** 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.

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

**Cancellation and Refund Policy:**

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.

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.

**Enquiries to:**

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**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: .....

Postal Address: .....

Suburb: ..... Post Code: ..... State: .....

Phone: ..... Fax: .....

Email: .....

**Sydney: Tuesday, 18 May 2010**

**Venue: SMC, 66 Goulburne Street, Sydney**

**REGISTRATION FEE:**       \$660 incl GST, MESA Member       \$770 incl GST, Other delegates

*DISCOUNT: EARLY PAYMENTS received 5 weeks prior to course will receive a \$66.00 (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

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*Please complete and return to: Asset Management Council  
PO Box 245 Surrey Hills VIC 3127 or Fax: 03 9880 7511, or Email: [info@amcouncil.com](mailto:info@amcouncil.com)*

