BII WORLD
Engage • Enlighten • Empower

MASTERCLASS ASSET MANAGEMENT PRACTITIONERS

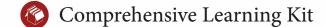Essential Knowledge required to become Certified Asset Management Assessor (CAMA)

- Real Time Online Classroom Training
- 20 Hours Live Interactive Sessions
- Pre-Course Preparation
- Continuous Learning Validation Certificate

- Post Course Assignments
- Comprehensive Learning Kit
- Mock Tests

17 – 21 April 2023

01:00 PM – 5:30 PM Australia ACT& 3:00 PM – 07:30 New Zealand

12:00 PM – 4:30 PM Papua New Guinea & 11:00 AM – 03:30 PM Fiji

10:00 AM – 02:30 PM Malaysia & 09:00 AM – 01:30 PM Indonesia

www.biiworld.com

Course Overview

This training provides the knowledge of the evolution of Asset Management through time and how Maintenance Management, Reliability Engineering and Asset Management relate to each other, going on to the difference between "Asset Management", and "Managing Assets". It aims to provide guidance and direction relating to challenges faced in the modern world relating to asset ownership and asset operation and introduces leading international institutes recommended applied practice.

The main objective of this course is to provide knowledge in asset management required by the World Partnership in Asset Management (WPiAM) to audit or assess an Asset Management system to the requirements of ISO 55001. This is essential to become Certified Asset Management Assessor.
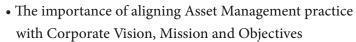
Learning Benefits

For Employers:

- Promotes alignment of Asset Management practices with Corporate Vision, Mission and Objectives.
- More efficient service delivery processes through creating an understanding of leading contemporary international Asset Management practice.
- Introduces to staff members the capability to maximise asset performance in meeting business imperatives.
- Highlights inter-associations between Asset Management and all other Corporate Policies, Strategies, Procedures, and Guidelines.
- Covers the ISO5500# suite of Asset Management System standards.
- Addresses the concept of maximizing the Capital Intensity – Operational Performance balance and taking account of the total cost of asset ownership and the asset lifecycle contribution to the business.
- Exposure to the criticality of creating a positive, innovative and productive corporate Asset Management culture, applied leadership and practice in leading successful Asset Management transformation, or change, within the organisation as well as how to achieve sustained improvement following cultural and Asset Management transformation initiatives.
- Facilitates the opportunity to factor in possible future business specific factors as well as political, economic, social, technical, legal and environmental forecasts and thus provides a basis for more informed decision making.
- The criticality formulating a corporate culture promoting innovation, loyalty and high performance.
- A staff base that understands asset management culture and leadership and supports corporate culture.

For Employees:

- The importance of aligning Asset Management practice with Corporate Vision, Mission and Objectives
- How alignment of Asset Management practice with Corporate Vision, Mission and Objectives is achieved.
- Leading contemporary international Asset Management practice and how this drives more effective and efficient service delivery processes.
- The necessity for maximising asset performance in meeting business imperatives.
- The ISO5500# suite of Asset Management System standards.
- Standards set by World Partnership in Asset Management (WPiAM) to audit or assess an Asset Management system to the requirements of ISO 55001.
- The concept of maximizing the Capital Intensity – Operational Performance balance and taking a total cost of asset ownership approach to the asset lifecycle contribution to the business.
- Concepts protocols and practice in formulating and applying leading practice team leadership based on innovation, loyalty and high performance

Departments and corresponding Designations

Asset Management

- Asset Managers
- Asset Operations Managers
- Asset Planning Managers
- Asset Health Specialists
- Asset Maintenance Specialists
- Asset Services Managers
- Asset Management Consultants
- Asset Health Specialists

Maintenance and Reliability

- Maintenance Managers
- Maintenance Superintendents
- Maintenance Planners
- Reliability Managers
- Maintenance Consultants

Operations

- Plant Managers
- Operation Managers
- Production Managers
- Project Managers
- Operation Excellence Managers

Finance

- Cost Controllers
- Cost Estimation Managers
- Cost Accountants
- Management Accountants
- Capital investment and 'Sustaining Capital' decision makers

C-level Management

- CEOs
- CFOs
- COOs
- VPs
- Directors

Industries

- Airlines/Aviation
- Automation
- Chemicals
- Defence
- Food and Beverages
- Government
- Logistics and Supply Chain
- Maritime
- Mining and Metals
- Oil and Energy
- Packaging and Containers
- Pulp and Paper
- Pharmaceuticals
- Plastics
- Railways
- Telecommunications
- Textiles
- Transportation/Trucking
- Utilities

Trainer's Profile
John Doran

John is a professionally Certified Mechanical Engineer also carrying post graduate qualifications in Leadership, Asset Management and Training and Assessment. He offers extensive experience in leading service delivery, operations and maintenance activities and optimizing asset contribution to business outcomes in large multi-faceted infrastructure and asset intensive businesses. Optimizing asset performance has always been a primary focus and he has been able to apply this in leading operations and asset management on multi-billion dollar projects.

John has led small specialized technical teams as well as large operational teams. He considers leadership as a critical operational and business success factor. His focus on optimizing asset contribution to levels of service is born out of experience and single-point accountability based on integrating asset performance with business drivers and facilitating informed decision making.

His work on asset whole-of-life performance resulted from being the "operator" and recipient of infrastructure, commissioned and handed over from the design and construct teams. This frequently resulted in what has been defined as "Value Leakage" and led him to deeper involvement in driving a more holistic approach to managing assets across all life cycle phases, based on total lifecycle performance and cost of ownership.

John has published professional papers on Leadership, Service Levels, Asset Management, Leading Successful Change and Outsourcing/Privatization of Public Sector Assets. His technical and leadership competence with many years of mentoring provides opportunity for imparting knowledge and capabilities to others.

Testimonials

"Course was aligned to various international frameworks" - Asset Manager

"It was a good course seeing AM in application, the tools and working examples" – Asset Manager

"The facilitator did a very good job at explaining how the standard fits into Asset Management and managing assets as a whole" – Maintenance Advisor

"Good materials provided to stimulate and improve knowledge & understanding of ISO 55000" – Team Leader Strategic Planning

"The presenter made it enjoyable and worked at various levels. Great experience shared" – Business Development Manager

"I liked the course material, companion guide, landscape and framework provided" – Maintenance Manager

"Presenter was good, entertaining, articulate with good relevance to exam" – Lead Engineer

"Content and knowledge of ISO 55000 was very good" – Senior Reliability Engineer

"Listening to the experience of the attendees and the trainer was helpful" – Strategic Asset Performance Manager

"The course was very relevant to my working environment" – Maintenance Specialist

"Trainer provided practical examples" - Strategic Asset Manager

"Case studies presentation were excellent" – Senior Reliability Engineer

- Duration: 2 hours
- No. of Questions: 110
- Type of Questions: Multiple Choice
- No. of Multiple-Choice Answers: 4

The "Certified Asset Management Assessor" (CAMA) certification establishes an individual's credentials in asset management knowledge and comprehension, globally.

This multiple-choice exam is based on ISBN978 0 9871799 3 7 GFMAM_ISO55001 Auditor_Assessor Specification. The WPiAM develops, maintains, and administers the exam.

The certification is conducted in accordance with 17024, and complies with:

- GFMAM Specification, GFMAM Competency Specification for an ISO 55001 Asset Management System Auditor/Assessor, First Edition, version 2 English
- 17021 Part 5, section 5Conformity assessment — Requirements for bodies providing audit and certification of management systems — Part 5: Competence requirements for the certification of asset management systems

Prerequisites for CAMA exam

Applicants must:

- Have a minimum 5 years of working experience in asset management;
- Provide a resume/cv; and
- Complete a professional profile. This professional profile is used to demonstrate compliance with ISO 17021-5 "Competence requirements for auditing and certification of asset management systems" that requires auditors to have experience in certain industry types and asset classes.

Applicants should:

- have working knowledge of ISO 5500X Standards; and
- Understand the GFMAM Competency Specification for an ISO 55001 Asset Management System Auditor/Assessor.

Note:– These materials will be referenced during the training and delegates are advised to have copies available:

1. The ISO55001 Asset management – Asset systems: Requirements document – "ISO55001:2014"
2. The ISO55002 Asset management – Asset systems: Guidelines for the Application of ISO/AS55001 document – "ISO55002:2019"
3. GFMAM document "Competency Specification for an ISO 55001 Asset Management System Auditor/Assessor" First Edition, version 2, English Version ISBN 978 0 9871799 5 1, dated April 2014
4. GFMAM document "Asset Management Landscape" Second Edition English Version ISBN 78 0 9871799 2 0, dated March 2014

Additional Strongly Suggested Reading Materials, many of which Hold Relevance to this Training:

1. ISO55000:2014 Asset management – Overview, principles and terminology
2. ISO 55010:2019 Asset management – Guidance on the alignment of financial and non-financial functions in asset management
3. ISO 55011:2019 Asset Management – Guidance on the development of government asset management policy
4. International Infrastructure Management Manual – latest version
5. The Institute of Asset Management: Asset Management – an anatomy, version-3, December 2015
6. Asset Management Council document "Companion Guide to ISO 55001" ISBN 978 09870602 4 2, dated January 2014
7. Asset Management Council document "Framework for Asset Management" ISBN 978 0 9870602 6 6, dated 2014
8. ISO/IEC TS 17021-5:2014 "Conformity assessment — Requirements for bodies providing audit and certification of management systems — Part 5: Competence requirements for auditing and certification of asset management systems"
9. GFMAM: The Value of Asset Management to an Organization, First Edition, English Version ISBN 0-9870602-6-0
10. GFMAM: The Maintenance Framework, First Edition, ISBN 978-0-9870602-5-9
11. Asset Management, Lloyd, Chris et al, Thomas Telford Limited, 2010, ISBN: 978-0-7277-3653-6
12. Living Asset Management, Lafraia, Joao R, and Hardwick, John; Ligare Pty Ltd, Riverwood, NSW, 2013, ISBN: 978-1-922107-25-1
13. Physical Asset Management, Hastings, Nicholas Anthony John, Springer International Publishing Switzerland, 2010, 2015, ISBN: 978-3-319-14776-5

Other Recommended Documents and Reading

1. A Guide to the Project Management Body of Knowledge (PMBoK), Fourth Edition, PMI 3. AS/NZS 15288:2003
2. Asset Management Council Competency Set Configuration Management Framework of Asset Management Council: Asset Management Body of Knowledge
3. ISO/IEC 15288 System Engineering
4. ISO 31000:2009 Risk management - Principles and guideline
5. ISO 31010:2009 Risk management - Risk assessment techniques

1. Pre-Course Questionnaire: A questionnaire will be provided to all the delegates before the online training which needs to be filled and submitted back to the trainer. The objective of this questionnaire is to gauge the attendees' understanding level and to gather their expectations. Trainer will format the training accordingly.

2. Pre-Course Preparation: Course notes (pre-course materials) and assignments will be provided by the trainer before the online training. Attendees need to study the material and submit the assignments before entering the online classroom.

3. Real Time Virtual Training: This course in an online format in principle does not differ to the direct presentation and assessment (face to face training). This course is organised as a five-day course and all the material in the original syllabus will be presented online as well as the tests.

4. 20 Hours of Live Interactive Sessions: Q&A round will be provided to interact with the trainer online. Trainer will also be available post course to interact with the attendees.

5. Mock Tests: Trainer will administer mock tests during the training to improve attendees' exam taking capabilities. Answers to the mock test will also be discussed during the training.

6. Post Course Assignments: To further enhance the learning experience, Trainer will provide post course assignments to the attendees which needs to be completed and submitted to the trainer.

7. Comprehensive Learning Kit: Trainer will provide Soft copies of the course materials during/after the training which will be helpful for the attendees as the future reference in their continuous learning journey.

8. Break Down Day Timing:

Session 1	60 min
1st Break	10 min
Session 2	60 min
2nd Break	10 min
Session 3	60 min
3rd Break	10 min
Session 4	60 min

Continuous Learning Validation Certificate:

⋯→ This certificate will validate and certify the attendees' credibility shown in continuous learning.

⋯→ The attendees will receive soft copy of this certificate only after attending all the 5 days training.

Day 1

Module 1: The Fundamentals of this CAMA Training

- Introduction to Asset Management (AM) through the Global Forum on Maintenance and Asset Management (GFMAM), including the Assessor Competency Specification and AM Landscape, the World Partnership in AM WPiAM), the AM Body of Knowledge (AMBoK), the Institute of AM (IAM)- Anatomy of AM, ISO5500# suite, other relevant AM publications

- Relationships between critical business drivers in asset intensive businesses and the AM contribution

- An awareness of the core disciplines of asset management

- Differentiating between "Asset Management" and "Managing Assets"

- Informed Decision Making

- The AMBoK "Concept", "System" and "Capability Delivery" Models

Module 2: Driving Asset Effectiveness and Efficiency Through the Asset Lifecycle, From Cradle to Grave

- A (w)holistic Asset Management approach
- The GFMAM 6 Subject Groups and 39 (40) Asset Management Subjects
- The "Asset Management System" (AMS)
  - » ISO55002 – Relationship between key elements of an AMS
  - » AM Policy
  - » AM Strategy and the Strategic AM Plan (SAMP)
  - » AM Plans and AM Class Plans (AMPs and ACMPs)
  - » AM Alignment
- AM Frameworks
- Understanding the key ISO55001 requirements
- Lifecycle Phases & Interfaces
- Asset Value Optimisation

Module 3: Lifecycle Planning Frameworks

- Considering various lifecycle planning frameworks
- Concept and impact of embedded performance on whole of life cost
- Capacity to influence "locked-in", or embedded cost and the importance of understanding the predicted whole of life cost of ownership
- Development of an Asset Management Framework that meets ISO55001 needs
- Detailed evaluation of the GFMAM Asset Management Subjects
- Systems Engineering & broader Asse

Day 2

Module 4: The evolution of Maintenance techniques from PPM through the current day practice of a broader approach to Managing Assets and Asset Management

- Evolution, Frameworks and Philosophy
  - » Planned Preventative Maintenance (PPM)
  - » Condition Monitoring techniques and Reliability Centred Maintenance (RCM)
  - » Predictive Maintenance techniques (TPM, TQM, etc) focusing on RAMS
  - » Reliability Engineering a major focus in certain sectors
  - » Reliability, Availability, and "RAMS"
- AM maturity

Module 5: Expanding RAMS and Asset Dependability

- More detail on RAMS
- Deferred Maintenance

Module6: Potential consequences of getting it wrong

Asset failure and learnings, including case studies

Day 3

Module 7: Development of a Strategic Asset Management Plan (SAMP)

- Covering:
  - » Asset Management Strategy & Objectives
  - » Asset Management System Monitoring
  - » Management Review, Audit & Assurance
  - » Stakeholder Engagement
  - » Asset Management System
  - » Asset Information Systems
  - » Resourcing Strategy
  - » Operations & Maintenance Decision-Making
  - » Asset Management Planning
- The identification of Asset Management Objectives linked to business needs

Module 8: Development of an Asset Management Plan (AMP)

- Covering:
  - » Asset Management Planning including Financial Projections
  - » Capital Investment Decision-Making
  - » Operations & Maintenance Decision-making
  - » Asset Ratios
  - » Resourcing Strategy
  - » Risk Assessment and Management
  - » Maintenance Delivery
- The relationship between Operations Planning, Maintenance Planning, Financial Planning and Repair/Replace decision makingMor

Module 9: Asset Information and the Asset Management Information System (AMIS)

- Covering:
  - » Asset Information Strategy
  - » Asset Information Standards
  - » Asset Information Systems
  - » Data & Information Management
- The role of data to support decisions and the role of Asset Metadata
- Business Information Management

Day 4

Module 10: Organisational Structures for 'Asset Management'

• The options for an effective Organisational Structure

Module 11: Continual Improvement

• The development of a Continual Improvement approach:

• Monitoring

• Failure Reporting and Condition Assessment Systems

• Feedback loops

Module 12: Leading Successful Change

• Successful introduction of a new approach to managing assets and the introduction of an AMS
   will involve implementing a change initiative

• The Challenge of Change

   » Change Drivers – The Need for Change

   » Change Outcomes

   » Change Process

   » Change Environment

• The Change "Development Cycle"

Day 5

Module 13: The Value of Good Corporate Leadership of Asset Management Principles, Protocols, Practices and Activities

• Why is AM leadership emphasised in the ISO 5500# suite?

• Servant based Leadership

• Values Based Leadership – the way to instilling an excellent Corporate Culture

   » Steven Covey (USA)

   » Richard Barret (UK)

   » Wayne Dyson (Australia)

Module 14: The Value of Good Corporate Culture

• Why is corporate culture emphasised in the ISO 5500# suite?

• What is, and what determines, "Corporate Culture"?

• How the Corporate Culture within which Good Leadership of Asset Management needs to be accomplished can promote
   and sustain, or impair, successful outcomes?

Module 15: Review of the GFMAM Asset Management Subjects and their links to ISO55001, 55002, and the AMBoK

		GFMAM Landscape	GFMAM Assessor Comp Spec	55001/ 55002	AMBoK Companion Guide	AMBoK Framework
Strategy and Planning	Asset Management Policy	✔	✔	✔	✔	
	Asset Management Stratgey & Objectives	✔	✔	✔	✔	✔
	Demand Analysis	✔	✔			✔
	Strategic Planning	✔	✔	✔		
	Asset Management Planning	✔	✔	✔		
	Capital Investment Decision-Making	✔	✔			
Asset Management Decision-Making	Operations & Maintenance Decision-Making	✔	✔	✔		
	Lifecycle Value Realisation	✔	✔	✔		
	Resourcing Strategy	✔	✔	✔		
	Shutdowns and Outage Strategy	✔	✔			
Lifecycle Delivery	Technical Standards and Legislation	✔	✔			
	Asset Creation & Acquisition	✔	✔			
	Systems Engineering	✔	✔			✔
	Configuration Management	✔	✔			✔
	Maintenance Delivery	✔	✔			
	Reliability Engineering	✔	✔			
	Asset Operations		✔			
	Resource Management		✔			
	Shutdown and Outage Management	✔	✔			
	Fault & Incident Response	✔	✔			
	Asset Decommissioning and Disposal	✔	✔		✔	
Asset Information	Asset Information Strategy	✔	✔	✔		
	Asset Information Standards	✔	✔	✔		
	Asset Information Systems		✔	✔	✔	
	Data & Information Management		✔	✔		✔
Organisation and People	Procurement & Supply Chain Management	✔	✔			
	Asset Management Leadership	✔	✔		✔	
	Organisational Structure	✔	✔	✔	✔	
	Organisational Culture	✔	✔			
	Competence Management	✔	✔	✔		✔
Risk and Review	Risk Assessment & Management	✔	✔			✔
	Contingency Planning & Resilience Analysis	✔	✔			
	Sustainable Development	✔	✔			
	Management of Change	✔	✔	✔		
	Asset Performance and Health Monitoring	✔	✔			
	Asset Management System Monitoring	✔	✔	✔		
	Management Review, Audit & Assurance	✔	✔			
	Asset Costing and Valuation	✔	✔			
	Stakeholder Engagement	✔	✔	✔		✔
ISO 55001	Asset Management System		✔	✔		

FAQs

Does BII Online Virtual Training have the same value as traditional classroom training?

Yes, BII Online Virtual Training offers participants; same training system as in-person, i.e face-to-face engagement with instructors, course material, interactive participation of all delegates, and personal support that they would expect to find in a traditional classroom.

What are main features of your online courses? Are they on-demand? Is it different content from the in-person offering?

The content of the virtual training is similar to the in-person sessions and customized presentation makes it a richer online learning experience. As always, we will share presentation materials with attendees for later reference.

The online courses are not on-demand and recordings cannot be purchased. They are set on scheduled dates, live with an instructor and co-host via webinar software. While the day is shorter than an in-person session (4hrs vs 8hrs), timing are adjusted to accommodate attendees in different time zones and allow more time for one-on-one conversations via the Q & A.

What are the technical requirements for participation in a virtual course?

All you need to participate in virtual training are:
- Desktop or Laptop or Tablet Computer, and Internet connection
- Webcam
- Headset with built-in microphone

Can I attend an online training session if I have a Macintosh computer?

Yes, Our Online training systems does allow Macintosh computers, PCs, and computers running Linux to easily enter any of our online training sessions.

What type and version of browser will I need for online classes?

It is recommended that you use the latest version of Firefox, Chrome or Internet Explorer for Windows and Firefox or Safari for Mac. Each of these is available for free download and also suggested you have the PDF Reader

How do I have access to the trainer for questions?

As in the classroom, you will see the trainer in front of you and have the opportunity to ask questions at any time - all via audio and video transmission.

Is there a mute option within an online training session to minimize background noise from my audio connection?

Yes, the Mute button will display to the right of your name as you hover your mouse over your name shown in the Participants panel on the top, right side of the Web conferencing screen.

What if I miss few sessions of the online training program?

The training will be simultaneously recorded which will be provided to you as per request & requirement

Do I get a Certificate at the end?

Yes, you will get a PDF version of your certificate of completion

Masterclass Maintenance & Reliability Practitioners

Facilitator : **Michael Eisenbise**
Date : **27 – 31 March 2023**
Timings : **01:00 PM - 5:00 PM Australia ACT and 3:00 PM - 07:00 New Zealand**
12:00 PM - 4:00 PM Papua New Guinea and 11:00 AM - 03:00 PM Fiji time
10:00 AM - 02:00 PM Malaysia Time and 09:00 AM - 01:00 PM Indonesia Time

Companies today face increasing competition and decreasing margins in the global arena. A culture of disruptive innovation combined with visionary leadership and relentless pursuit of process improvement and cost reduction done right are the ingredients required for survival and growth. Equipment must be safe and reliable and process variability must be eliminated.

Michael Eisenbise the facilitator for this course has 43 years of maintenance technology and reliability experience. He is a Certified Maintenance and Reliability Professional (CMRP) with the Society for Maintenance and Reliability Professionals Certifying Organization (SMRPCO), a Certified Plant Engineer (CPE) with the Association of Facility Engineers (AFE), a Certified Plant Maintenance Manager (CPMM) with the AFE, and a Certified Reliability Leader (CRL) with the Association of Asset Management Professionals. He is also a registered Professional Engineer (PE) in Florida.

CLICK HERE To access this course agenda.

Maintenance Planning Scheduling & Control

Facilitator : **Dave Dyer**
Date : **15 – 19 May 2023**
Timings : **01:00 PM - 5:45 PM Australia ACT and 3:00 PM – 07:45 New Zealand**
12:00 PM - 4:00 PM Papua New Guinea and 11:00 AM - 03:00 PM Fiji
10:00 AM - 02:00 PM Malaysia and 09:00 AM - 01:00 PM Indonesia

This course is based on an integrated maintenance model that has been used by leading companies and consultants with success and recognised as best practice. Participants will learn the total impact that maintenance can have on a business, identify key elements (and value) of effective maintenance for their own plants to not only reduce costs but also improve performance.

Dave Dyer the facilitator of this course is a highly experienced in maintenance improvement, change management, continuous improvement and capability development as a management coach and trainer. He has worked internationally across Europe, America, the Middle East and Africa with extensive experience in Oil and Gas, the Chemicals sector and manufacturing as well as working with clients in Steel and Power Generation.

CLICK HERE To access this course agenda.

Maintenance Best Practices for Leadership & Supervision

Facilitator : **Andy Gager**
Date : **19 – 23 June 2023**
Timings : **01:00 PM - 6:00 PM Australia ACT and 3:00 PM – 08:00 New Zealand**
12:00 PM - 5:00 PM Papua New Guinea and 11:00 AM – 04:00 PM Fiji time
10:00 AM - 03:00 PM Malaysia Time and 09:00 AM – 02:00 PM Indonesia Time

Enhance your performance and strengthen your workforce by improving your Leadership & Supervisory skills and be confident that you can be successful in meeting the difficult challenges of today's business world. Supervisors are the first line of management in any organization.

Andy Gager the facilitator of this course is recognized as an industry leading expert in facilitation, global implementations of operations best practices, maintenance systems, and supply chain with over 20 years of industry experiences ranging from warehousing operations to plant management and over 20 years of consulting and facilitating trainings. He has worked extensively in the manufacturing, oil & gas, food & beverage, facility management, power gen, pharma, and transportation industries.

CLICK HERE To access this course agenda.