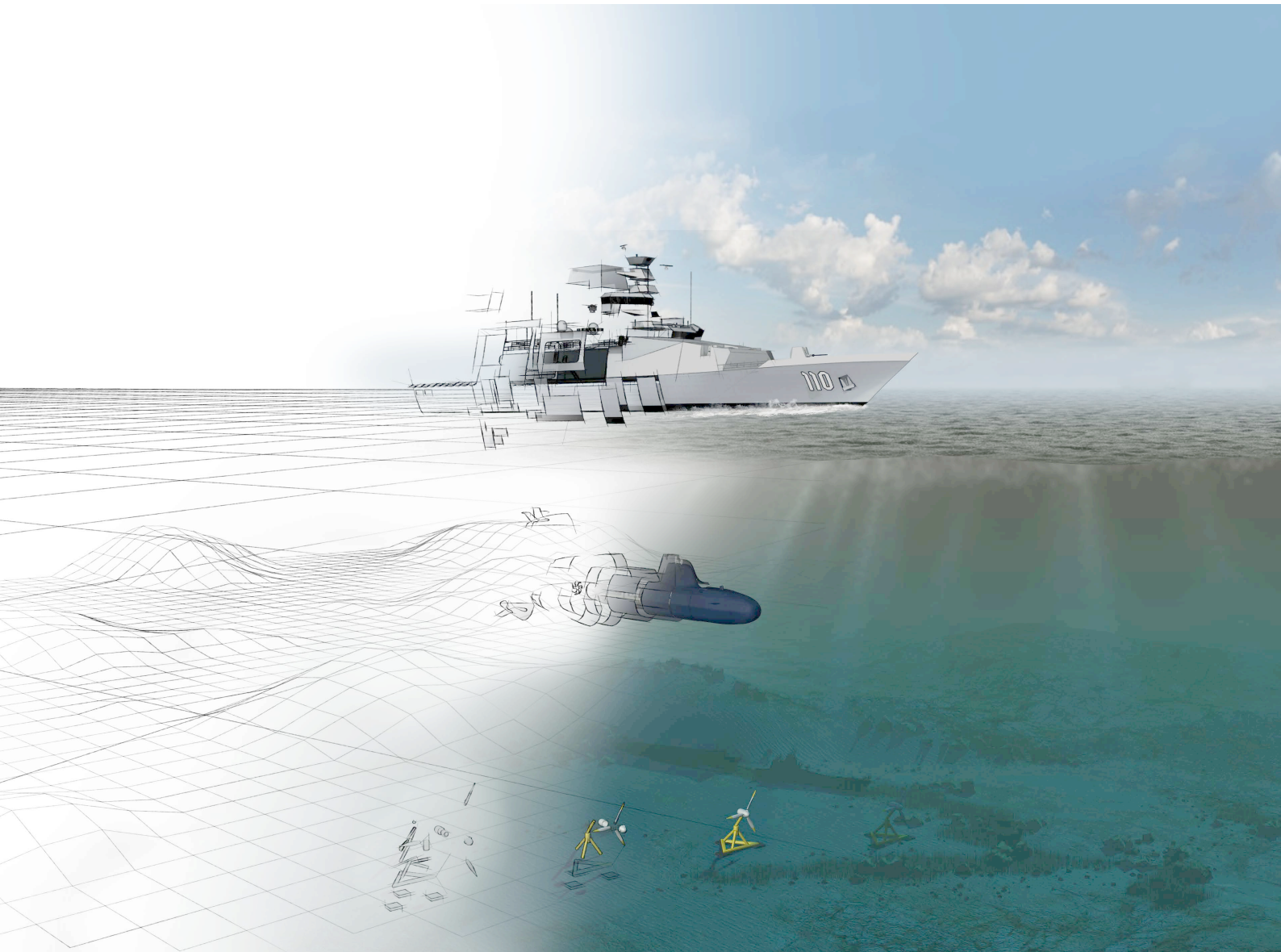




**Australian Engineers for the  
Australian Naval Enterprise.**



# INTRODUCTION TO FLEET LIFE CYCLE MANAGEMENT

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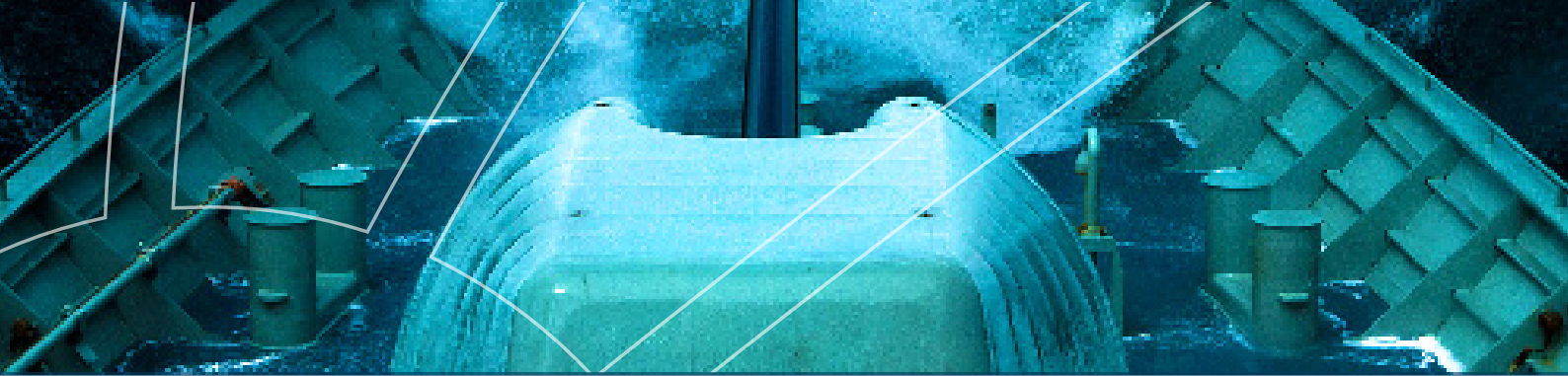
5 DAY TRAINING COURSE

CANBERRA

18-22 FEBRUARY 2019

# COURSE OVERVIEW

BMT's Introduction to Fleet Life Cycle Management training course describes asset management as it applies to ships and submarines, focussing on concepts and ideas related to requirements and complexities associated with managing naval assets across the life cycle, from design & production through in-service operations & maintenance and disposal.



BMT's *Introduction to Fleet Life Cycle Management* course provides detailed insight into Asset Management and its applications to naval ships and support systems in Defence's maritime environment. The course addresses all aspects of life cycle management with some of the leading figures in Australia's asset management community to provide "real world" education about the applicability of asset management to large and diverse organisations. Moreover, our personnel provide a practical and pragmatic approach to Fleet Life Cycle Management and the implications of developing and implementing asset management both Defence-wide and in specific programs. The course covers a comprehensive array of theory and practical guidance for the consideration of Asset Management integration into existing and new Defence programs with specific emphasis on the following areas:

- Asset Management System and Strategic Framework Models
- Asset Management Strategy and Policy that best support Maritime programs
- Holistic Life Cycle Planning that facilitates Operations & Maintenance
- Development and Improvements to Usage and Upkeep Cycles
- Upkeep, Update and Upgrade management across the Capability Life Cycle
- Integration with Seaworthiness initiatives and Australian Maritime Logistics Doctrine
- Technical, Business and Capability considerations at the ship, class and fleet levels

This intensive 5-day course encompasses knowledge gathered from academia, industry, allied navies and professional Asset Management organisations and societies. The presenters and speakers have over 200 years of combined Asset Management and Life Cycle Management experience with many having considerable experience in Australian industry and academia. Interactive discussion between course attendees and presenters will identify and address current acquisition and sustainment challenges that affect life cycle management activities during all phases of Defence's Capability Life Cycle.

BMT, as the only Defence industry member of Australia's Asset Institute, brings together asset management expertise in:

- Asset Management Systems
- International Standards
- Commercial Best Practices
- Evolving Trends in Business
- Research Efforts in Academia



# COURSE TOPICS

Course material informs and educates Defence professionals about the advantages Asset Management brings to Defence by highlighting how its application across assets' life cycles to increase overall value to Australia's National Naval Enterprise. Participants will understand how to improve overall efficiency and effectiveness through development and implementation of Asset Management methods, practices and principles.

## Fundamentals of Asset Management

- Definitions & Terms
- Applications to the Naval Enterprise
- Integrated frameworks
- Stakeholder Engagement

## Fleet Life Cycle Objectives

- Availability, Capability and Affordability
- Deployability, Lethality and Reliability
- Material Readiness
- Integration with Defence Seaworthiness

## Asset Life Cycle Managers

- Knowledge Domains
- Areas of Expertise
- Cognitive Abilities

## Asset Management Specialists

- Asset Owners
- Asset Governors
- Asset Operators
- Asset Managers

## Data Acquisition & Information Management

- Condition Monitoring
- Condition Based Maintenance
- Technical Debt
- Operating in a Digital Environment
- System of Systems Thinking

## Tactical & Operational Planning

- Life Cycle Capability Acquisition Planning
- In-service Design Updates
- Sustainment Planning
- Disposal Planning

## Fleet Life Cycle Management Artefacts

- Fleet Life Cycle Management Policy
- Strategic Management Plans
- Asset/Asset Portfolio Management Plans
- Business execution plans

## Organisational Management

- Enterprise Communications
- Working across Business Units
- Operating across a Matrix Structure

## Managing Sustainment to Support Seaworthiness

- Planning Maintenance Availabilities
- Maintenance Availability Work Packages
- Developing Usage and Upkeep Cycles
- Delivering Capability across the Life Cycle

## Financial Management and Business Operations

- Rolling Business Plans
- Budgetary Requirements and Risk Management
- Developing Future Budgetary Submissions
- Synchronising Upkeep, Upgrade and Updates
- Earned Value Management

# COURSE TOPICS

Course modules are designed to introduce acquisition and sustainment professionals to the discipline of Asset Management as it is specifically applied to Defence's naval programs.

## Asset Management Practices and Principles

- Value for Money
- Business Operations
- Technical Management
- Capability Delivery
- Maturity model

## Synchronising Knowledge across Programs

- Coalescing Asset Management into Operations
- Productivity & Performance Based Contracting
- Integrated Fleet Operations and Maintenance

## Whole of Life Planning for Assets

- Strategic Management Plans
- Asset/Asset Portfolio Management Plans
- Business execution plans
- Decision Support
- Predictive Life Cycle Forecasting

## Integrated Strategic Asset Management Planning

- Establishing and Developing a Framework
- Framework Components
- Australian Maritime Logistics Doctrine
- Capability Life Cycle
- Business Framework

## Life Cycle Management Requirements

- Strategy
- Policies
- Plans
- Objectives

## Influences of Government Policy

- Regulations
- Statutes and legal obligations
- Value for Money
- Smart Buyer Framework
- Effects from departments outside Defence

## Achieving and Maintaining Maturity

- ISO 55001 Initial Gap Assessment
- Asset Management Maturity Model
- Maintaining Maturity across the Life Cycle

## Asset Management Knowledge Resources

- Conferences & Learning Centres
- Professional Organisations
- Forums and Affiliations
- Literature
- Academia

## Asset-related Activities

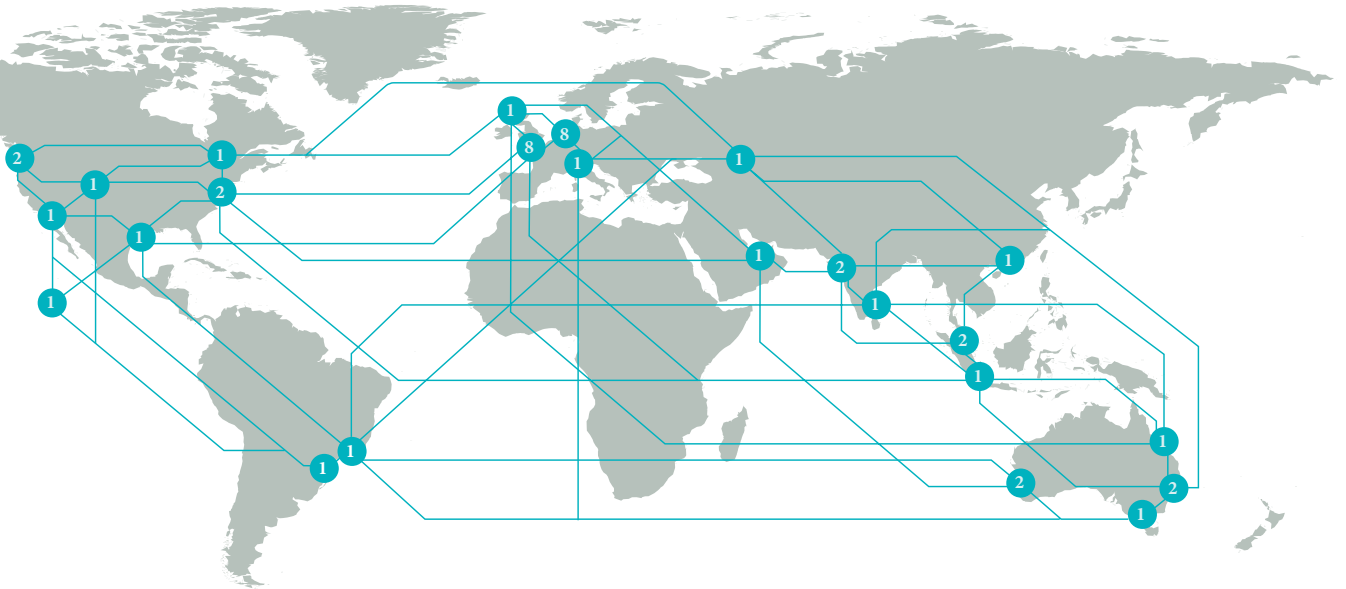
- System Performance Monitoring
- Material Condition Assessment
- Life Cycle Planning Conference
- Seaworthiness Assurance
- Maintenance Availability Scope Management
- Asset Performance Assessment

## Synchronising Knowledge across Programs

- Education through Academic Programs
- Professional Training
- Assessments
- Certification

# ENQUIRE NOW

International Knowledge Network, BMT spans over five continents specialising in areas from defence to renewables.



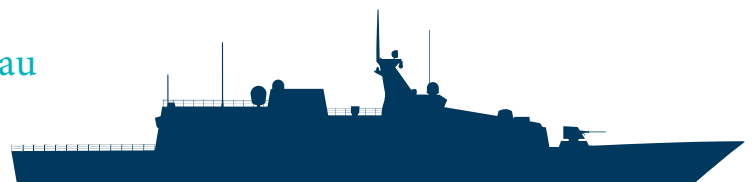
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## About Us

BMT is a truly independent engineering and project management consultancy with proven experience in the defence, maritime and transport industries.

Providing confidence from the early stages of concept through to in-service support and disposal; we deliver innovative solutions to the most complex platform and system issues.

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