

QUALITY SYSTEM CERTIFICATION
DNV
ISO 9001

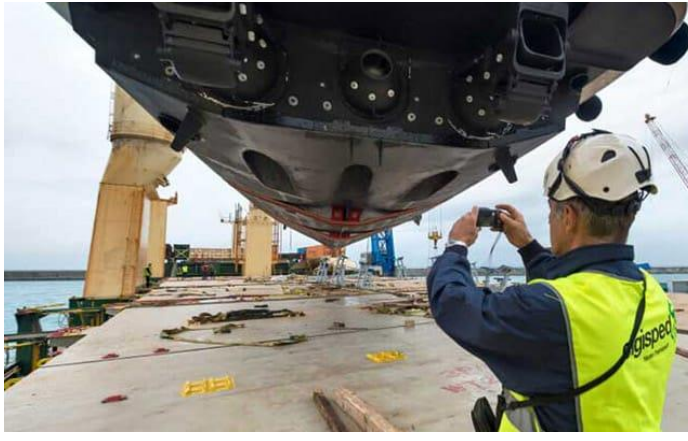
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Project Management: From Tender Specification to New Build Delivery



Agenda for Presentation

- Introduction to Maritime Survey Australia
- Vessel Procurement Steps and Benefits
- Project Management
- Recent New Build/Refit Experience



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Introduction to Organization
What we do, and why work with us?

• Tender Specification & Evaluation	• Vessel Procurement
• Maritime Consultancy	• New Build & Refit Project Management
• Condition and Valuation Surveys	• Stability Assessments
• Naval Architectural Services	• Plan Approval Services





Major clients

- Department of Defence
- NSW Roads and Maritime
- Australian Border Force
- Serco Defence
- Port Authority NSW
- Transdev Sydney Ferries
- Maritime Constructions
- KAUST

MSA Group
Australia - New Zealand

MSI Group
International

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Vessel procurement - Where do we start!

1. Needs & operation analysis

Understand Operational Needs
Early Engagement
Operational Review
Key Vessel Requirement Identify necessary features
Future-Proofing: Consider potential future needs and scalability.



2. Specifications & Tendering

Develop Specifications: Create detailed Function and Performance Specifications (FPS) based on operational analysis.
Release Tender
Stakeholder Collaboration
Tender Evaluation: Establish criteria to assess submissions and manage bidder inquiries.

3. Contracting & Construction

Evaluate & Award.
Construction Oversight
Operator Involvement: Ensure continuous feedback from operators during construction.
Special Equipment Integration: Oversee the integration of key vessel requirements, such as cranes, helipads, or ROVs.

4. Delivery & Commissioning

Acceptance Trials: Conduct comprehensive trials to ensure all specifications and performance requirements are met.
Operational Testing: Crew Training
Final Handover

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Vessel Procurement Process - Benefits

Major Benefits of Completing a Comprehensive Vessel Procurement Strategy
Optimized Vessel Performance: By thoroughly understanding operational needs and performance requirements, the vessel is designed and built to meet specific missions, ensuring it performs optimally in its intended environment.

1.Cost Efficiency



2. Future-Proofing



3. Risk Mitigation



4. Enhanced Operational Readiness



Newbuild project approach and program

Initiation	Planning	Execution	Monitoring and Controlling	Closing
Meetings – Owner, Designer Evaluate project expectations, and requirements	Schedule, determine roles and responsibilities, shipyard	Identify key personnel, challenges, risks, adjust planning and budget Inspection and reporting	Reporting, analyse & evaluate performance, man hrs. vs performance PM System	Inspect and report on completed tasks Milestones Feedback Lessons learnt

Compliance and performance specification i.e:
NSCV / Class
Noise, scientific equipment

Construction
Success requires attention throughout the design and construction phases

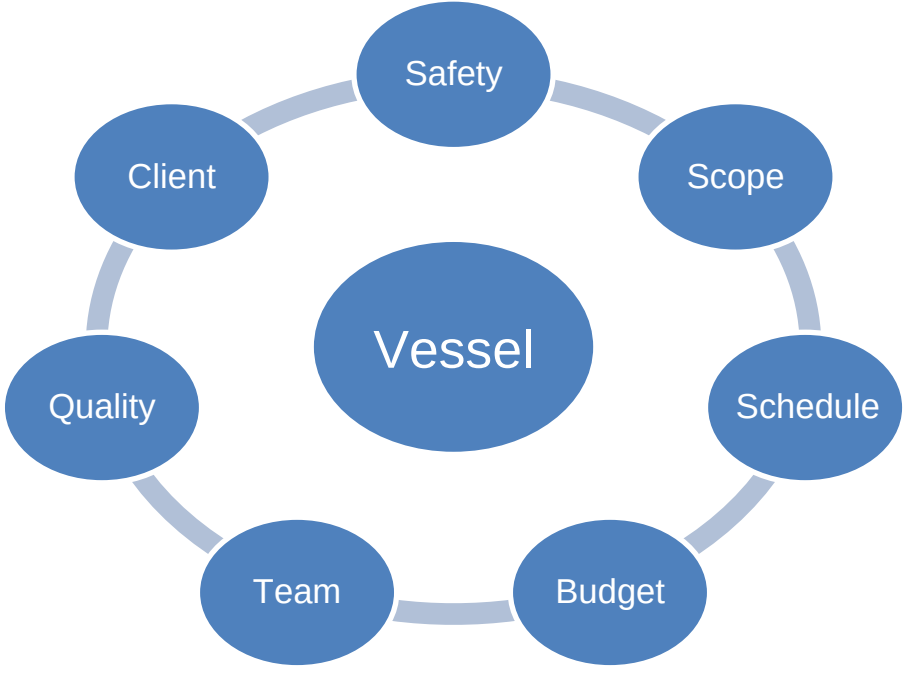
Successful design
- Requires planning and follow-through
- Must start at early stages
- Review Plan Approval to NSCV / Class requirements.
- Balancing performance & cost
- Requires coordination between client, surveyor, naval architects and shipyard

Experience
- Meeting with key shipyard personnel: what to look for, what to be aware of, how to prevent rework
- Inspections of critical components: identify and correct possible deficiencies
- Opportunities: testing of critical machinery components when available

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Project Approach and Program - Judging Success

The vessel will be successful if it is able to deliver an enhanced marine science capability and capacity while at the same time reducing long term operational costs and downtime.



Capability - MSA Experience

Vessel Procurement Support and Project Management / Client Representation

PORT AUTHORITY OF NEW SOUTH WALES

PORT PHILLIP SEA PILOTS

EMV EMERGENCY MANAGEMENT VICTORIA

FIRE RESCUE VICTORIA

- Develop tender specification and revision
- Superintendency
- Client representation
- Inspections & reports to ensure compliance with specifications and applicable standards (NSCV)
- Identify risks and mitigation
- Business case for funding
- Selecting vessel builders
- Fleet replacement program
- Plan approval



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Current projects

Australian Institute of Marine Science (AIMS) Regional Class Research Vessel



MSA are a part of the design team along with Glosten and One2three Naval Architect providing

- Shipyard tendering & evaluation support.
- Involved in the preliminary design to detailed design for review and approval.

Hart Marine Pilot and Patrol vessels



MSA have been working with Hart Marine since 2008. We complete the initial survey on all the new construction GRP Hart Marine pilot and patrol vessels.

RV Thuwal II



MSI have been engaged by King Abdulla University of Science and Technology (KAUST) as the onsite client representative at the Spanish shipyard Freire to build its new research vessel, RV *Thuwall II.*

Super yacht – Client representative



MSA has acted in the role as the client representative to oversee the construction of a 33.6m fibreglass yacht being built in New Zealand

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Affiliations

MSI operates in a highly regulated industry and is required to hold a range of licenses and approvals to offer its services.

Members of key industry associations:

- Australian Commercial Vessel Operators Association (ACVOA).
- American Boat and Yacht Council.
- Australian International Marine Exporters Group (AIMEX), Superyacht Australia & ACMG.

Individual memberships with esteemed organizations:

- AMSA Accredited Marine Surveyors.
- International Institute of Marine Surveyors (IIMS).
- Australasian Institute of Marine Surveyors (AIMS).
- Royal Institution of Naval Architects (RINA).
- Institute of Marine Engineering, Science & Technology (IMarEST).
- Engineers Australia.
- eCMID, Accredited Vessel Inspectors.

AIMEX AUSTRALIAN MARINE EXPORTS

ABYC Boating Safety... Built In www.abycinc.org MEMBER

ACVOA Australian Commercial Vessel Operators Association

ENGINEERS AUSTRALIA

The Royal Institution of Naval Architects

IMarEST

INTERNATIONAL INSTITUTE OF MARINE SURVEYING

AUSTRALASIAN INSTITUTE OF MARINE SURVEYORS

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Thank you

Any questions?



