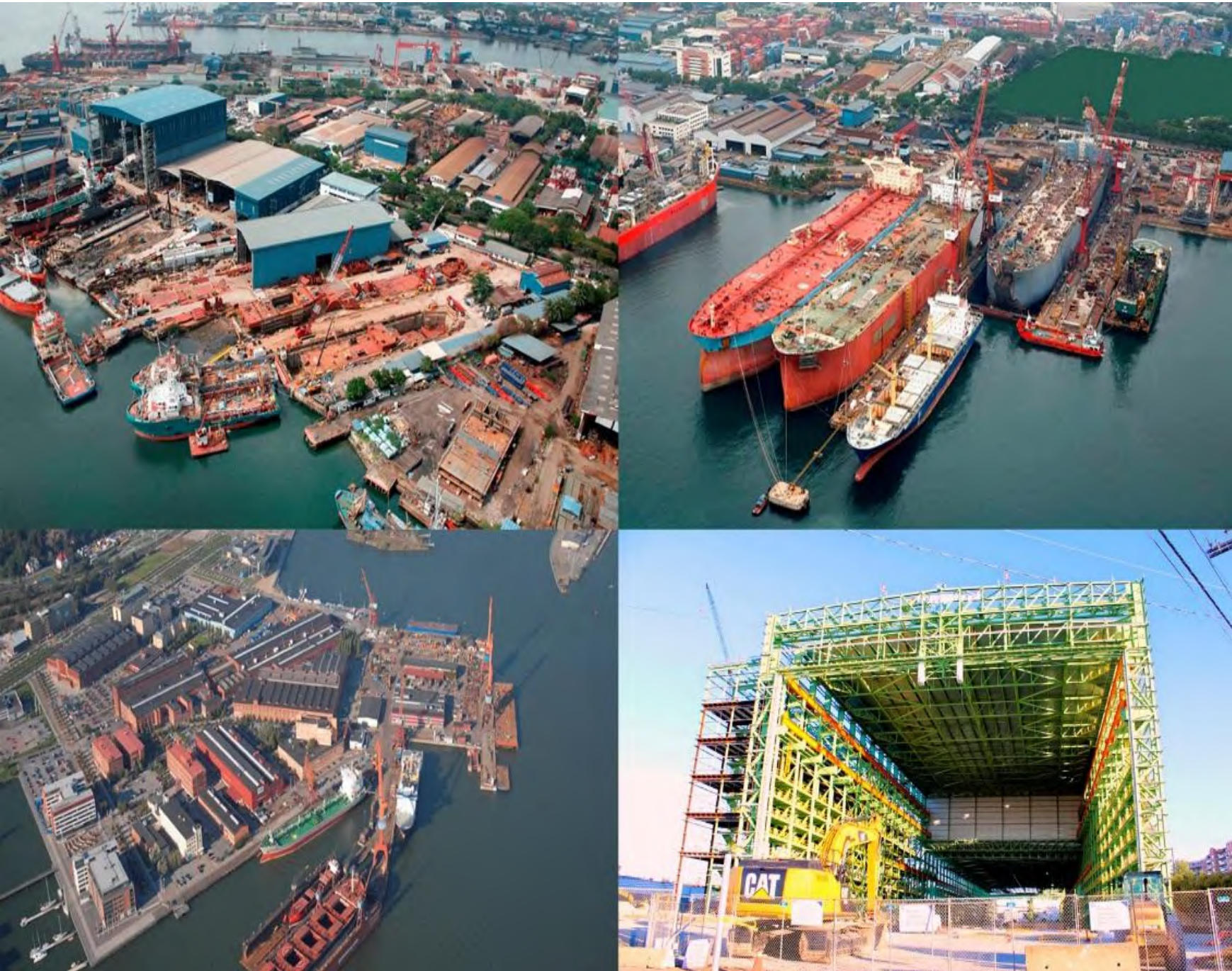




Shipyard Management: Operations, Planning & Design

21st – 22nd May 2015

Belaire Suites Hotel, Durban

Overview of this unique event

Ships and other large, marine vessels are complex structures. They operate in a wide range of harsh environments and carry out 90% of the world's trade and resource exploration activities. Even small ships have a complex structure, including systems for propulsion and operation, cargo handling and crew support. Ships have a long life, during which their harsh operating environment places heavy demands on their repair and maintenance to keep them operational. Whether non-marine engineers, or support staff involved in contracts and logistics, all can benefit from a practical understanding of the overall shipyard business. This 2 day course is designed to provide essential knowledge in shipyard management and the various operations taking place – ship design, shipbuilding, repairs & maintenance, conversion and retrofitting. This includes the early ship design and contracting stage, following up to the post contract, ship construction and production up until project completion and handover phase. Prepared by an international leading specialist, the material covered in the in the various course modules explains the different shipyard processes and operations involved in a clear and straightforward manner

Who Should Attend

- Representatives from Ship-owners
- Offshore Vessel Owners
- Managers Shipyards
- Shipbuilders
- Parts Suppliers that need to understand the management of shipyard operations including:
- Marine Engineer, Operations and Technical Managers
- Superintendents
- Naval Architects, Draughtsman and Marine Surveyors
- Design Engineers
- Project Managers
- Fleet Managers
- Contract Managers and Specialist
- Ship Conversion Specialist
- Marine Equipment Vendors

Benefits of Attending

Gain a clear overview of the entire marine business, the various types of ships available, different markets for ship, financial issues and their correlation to shipyard operations

Understand the various stages of a shipbuilding contract and the main processes required

Examine and assess the different stages in ship design - contract design, procurement issues, post contract, ship functions, design approval and production needs

Learn how to plan the ship procurement needs successfully

Understand and compare the differences between ship construction from ship repair and conversion activities

Apply appropriate planning & strategies for all stages and events across short to medium term shipyard projects

Manage various shipyard production processes effectively - steel structure production, material cutting & forming, unit and block assembly, machinery and hull outfitting, system testing and commissioning

Monitor project progress closely and manage a successful project handover upon completion and commissioning

EXPERT FACILITATOR MIKE HAWES



A career of more than forty years in the Commercial and Naval Maritime Industries for various commercial shipbuilding interests, the South African Navy, Armscor; Dorbyl Marine, Dorbyl Motoryachts; Oceanco Inc; Southern African Shipyards and Elgin Brown & Hamer (Pty) Ltd

Qualifications: I am a registered Professional Engineering Technologist with the Engineering Council of South Africa and the South African Institute of Mechanical Engineers. I have a Post Graduate Diploma in Military Systems Engineering from University of Pretoria. I am a member of the Society of Naval Architects and Marine Engineers (SNAME).

Experience: Experienced in the management of large production facilities and associated plant and engineering systems. Typically Naval Vessels and Submarines; SA Naval Dockyard Simonstown, Manager Submarine Refit Section; Naval Acquisition Programmes; Dorbyl Marine Shipyard – Shipbuilding Trials Manager for a series build of 840 TEU Container Ships; and SA Shipyards, Durban – Project and Marketing Manager for the Luxury Motoryacht and Tug Building Programmes

Expertise: The Project Management and Specification of Naval Acquisition Projects, extensive practical exposure to all aspects of project management, marine engineering and ship design, and the integration of maritime electronic systems, in both combat and commercial vessels. Hands-on management of maintenance and upkeep facilities of the SA Navy's surface and sub-surface vessels in the areas of general management, technical management, estimating, planning, quality assurance, production control and short and medium term logistic support determination and management. Experienced in the management of estimating, tendering, design phases and contracting of naval and commercial shipbuilding projects, acceptance trials as well as the fabrication and installation of ship systems and production plant for the petro-chemical, pulp and paper, aluminum and sugar industries.

WORKSHOP AGENDA

DAY 1

THE MARINE BUSINESS, TYPES OF SHIPS, DIFFERENT MARKETS, FINANCIAL ISSUES

- Understanding marine activities
- Types of ships and other marine vehicles
- Markets for ships
- The shipyard business climate
- Overview of shipyards using an "activity map",
- Outlining the stages of a shipbuilding contract and the processes required

SHIP DESIGN - TO BUILD CONTRACT

- Contract design
- Production & procurement issues in early design
- The ship design process - design spiral
- Preliminary design for marketing to potential clients
- Contract design to support Contract negotiations
- Design for production – Standardisation and Maintainability
- Procurement of long lead time items

SHIP DESIGN - POST CONTRACT, FUNCTIONAL DESIGN FOR APPROVAL, PRODUCTION NEEDS

- Developing the design from how the ship works to how it will be produced
- Functional design, Design approval by the Owner
- Functional design for approval by Class and Safety Regulators
- Design for Production
- Build Specification

WORK PREPARATION, SCHEDULE BREAKDOWN AND PROCUREMENT

- Ensuring that everything is in place for a successful ship construction project
- Breakdown of the ship structure and outfit into production units
- Transition design for intermediate stages of production
- Sequence of work
- Procurement of main items and material/equipment packages

LNG New Technologies develops conceptual design and basic design for vessels and system in-house and in cooperation with partners. Our main focus is currently on medium scale LNG carriers. The following sets forth our general design philosophy for the construction and operation of new LNG carriers and its systems:

Safety: Our design shall ensure a safe and efficient operation in all expected conditions. It shall meet or exceed all requirements from relevant rules, regulations and recognized standards.

Newbuilding price: Our design shall ensure cost effective solutions both in terms of material costs and man hours, by innovative and building friendly solutions.

Environment: Our designs shall meet or exceed all current environmental regulations. In particular, design efforts focus on the lowest possible carbon footprint, by limiting the energy consumption.

Voyage costs: As indicated above, our designs shall emphasis to add value for the charterer by optimizing the energy efficiency and reducing the total fuel consumption.

Operating costs: Our design shall focus on the future economical operation and ease of maintenance and access to all essential equipment on board.

Reliability: Our design and selection of equipment and systems shall ensure a high level of integrity and to optimize maintenance in order to minimize technical off hire.

DAY 2

PLANNING, PRODUCTION ENGINEERING, BUILD/ CONVERSION/REPAIR STRATEGY

- Organising the timing of all events in the ship project
- Planning applied to the whole life of the ship construction project
- Corporate planning for future projects
- Strategic planning for an individual project
- Tactical planning for current projects for the medium term
- Detailed planning of work stations for short term
- Collation of all information into a coherent strategy for a project
- Shipbuilding, conversion or repair strategies

SHIP CONSTRUCTION - PRODUCTION PROCESSES

- Design Interface
- Steel and other structure production
- Material cutting, forming
- Unit and block assembly
- Machinery and hull outfitting
- Production and sub-contracting
- Module assembly and unit outfitting
- On board outfitting
- System Set-to-Work, and Commissioning
- HATS
- SATS

PROGRESS MONITORING AND CONTRACT MANAGEMENT

- Monitoring the progress of the project plan
- Control of resources and costs
- Trials and commissioning
- Project Handover
- Equipment Guarantees
- Closing the contract, after sales service
- Warranty Period

SHIP REPAIR AND CONVERSION

- How these are very different businesses from ship construction
- Ship repair activities compared to ship construction
- Ship repair facilities – Southern Africa
- Production processes
- Cost structures



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Contact Hami on 074 869 5047 or e-mail hami@tsktraining.co.za

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REGISTRATION FORM

Fax Completed Registration Form to +27 (0) 86 625 5811

21st – 22nd May 2015

Shipyard Management: Operations, Planning & Design

Company Name: _____

Type of Business: _____

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Tel: _____

VAT Number: _____

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