

**Training Title**

**HANDLING, MANEUVERING & COMMANDING OF TUGS, BOATS & CRAFT INCLUDING TOWAGE OPERATIONS, SURVEILLANCE, SEARCH & RESCUE**

**Training Duration**

**5 days**

**Training Venue and Dates**

<b>Handling, Maneuvering &amp; Commanding of Tugs, Boats &amp; Craft including Towage Operations, Surveillance, Search &amp; Rescue.</b>	<b>5</b>	<b>4-8 March, 2024</b>	<b>\$5, 500</b>	<b>Dubai. UAE.</b>
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**Trainings will be conducted in any of the 5 star hotels.**

**Training Fees**

**\$5,500 per participant for Public Training includes Materials/Handouts, tea/coffee breaks, refreshments & Buffet Lunch.**

**Training Certificate**

**Prolific Consultants FZE Certificate of Course Completion will be issued to all attendees.**

**TRAINING OVERVIEW**

**COURSE DESCRIPTION**

*This five-day training course is essential for marine and shipping personnel dealing with tugs and towage. All applicable Class and Statutory regulations, inspections, surveying (current & proposed), and certification pertaining to tugs will be discussed. Attendants will receive a solid foundation of the requirements of the Class and Flag State.*

*This course will concentrate on tug designs and types of tugs, assisting methods, tug capabilities and limitation, bollard pull, interaction, towing equipment, tug development and safety.*

*The topics presented during this training course will provide companies with the information necessary to meet current and proposed compliance requirements more economically while maintaining the highest level of safety.*

**COURSE OBJECTIVE:**

*Tug designs and assisting methods.*

*- Factors influencing tug type & design.*

*-Types of tug-tug performance and safety.*

*-Tug superstructure and underwater design.*

*-Assisting methods relationship between type of tug and assisting method\tug capabilities and limitations-pivot point-towing point, pushing point and lateral centre of pressure-direct and indirect towing methods- reducing the transverse resistance of the hull - reducing the height of the towing point-a towline*

*with good shock absorption characteristics-reducing the height of the pushing point.*

- Bollard pull requirements-factors influencing bollard pull requirements\tug wash effects-environmental conditions and Displacement*
- Interaction effects influencing tug performance - tug safety coming alongside and departing from a ship's side - passing a towline near the bow-passing a towline at the stern-forward & stern tug steering broadside.*
- Escort towing operational practice-braking & steering forces-side & rudder tugs-stability.*

**SUITABLE FOR:**

***This training seminar will greatly benefit all individuals who wish to improve their leadership skills and develop their personal power and effectiveness:***

- Managers*
- Team Leaders*
- Supervisors*
- Professionals*
- Technical Staff*
- Superintendents*
- Operators*
- Officers*
- Procurement professionals*
- Suppliers*
- Planners*
- Inventory professionals*

**TRAINING METHODOLOGY:**

*A highly interactive combination of lectures and discussion sessions will be managed to maximize the amount and quality of information and knowledge transfer. The sessions will start by raising the most relevant questions and motivating everybody to find the right answers. You will also be encouraged to raise your own questions and to share in the development of the right answers using your own analysis and experiences. Tests of multiple-choice type will be made available on a daily basis to examine the effectiveness of delivering the course.*

**COURSE OUTLINE:**

**DAY 1**

**Tug designs and types of harbour tugs**

- Differences in tug design factors and assisting methods*
- Factors influencing tug type and tug assistance*
- Types of tugs*
- Classification of tugs and operational design aspects*

- *Basic and related tug types*
- *FAST tug types, specific tug types, research, performance*

## **DAY 2**

### **Assisting methods, tug capabilities and limitation**

- *Assisting methods*
- *Basic principles and definitions*
- *Capabilities and limitations*
- *Design consequences*
- *Environment limits for tug operations*
- *Some other practical aspects*

## **DAY 3**

### **Bollard pull required, interaction and tug safety**

- *Introduction*
- *Factors influencing bollard pull required*
- *Bollard pull required*
- *Interaction and shallow water effects*
- *Tug safety*
- *Summary and conclusions*

## **DAY 4**

### **Towing Equipment**

- *Additional towing points and gob ropes*
- *Towing bits, hooks and winches*
- *Towline Safety Systems*
- *Sale and Purchase*
- *Towlines and its handling*
- *SWL, towing equipment, emergency towing equipment*

## **DAY 5**

### **Escort tugs, tugs development, safety**

- *Escorting objective and tug placement*
- *Special developments in the design of tugs*
- *Autonomous tugs*
- *Safety*
- *Risks*

- *Safety Management Systems*

### **Organizational Impact**

*Organizations dealing with the tugs benefit tremendously when their leaders possess a high degree of the inner competencies gained in this seminar. They will be better able to understand the various tug types, assisting methods and certificates required by the tugs. They will access in-depth thinking potential to make decisions and solve problems more effectively.*

- *Understanding of the use of tugs, assisting methods and tug designs*
- *Improving interface management between departments dealing with the tug operations*
- *Minimizing number of mistakes when working with various tug types*
- *Speeding up operations*
- *Serving clients more efficiently*
- *Enhancing human relations within the organization*
- *Improving vision of future opportunities for development*
- *Developing necessary employee's skills*
- *Saving costs*

### **Personal Impact**

***This training course teaches the competencies that enable leaders to:***

- *An enhance knowledge of the tug designs, operations and assisting methods*
- *Appreciate of inspection and certification issues affecting the tug sector*
- *Practically understand of how to apply their knowledge to their everyday work environment*
- *Which tools provide the best results*
- *Integrate strategic knowledge and operations with other forms of management practice within the sector*
- *Understand of tug's capabilities and limitations and how to deal with different tug types*
- *Know of the legal framework*
- *Understand of the towing equipment, bollard pull*
- *Get acquired into the safety and emergency in towing and tug operations*
- *Understand of marine environment protection during tug operations*
- *Know of the resources available*
- *Predict risks and possible constraints*

**Case Studies, Role Plays, Videos, Discussions, Last Day Review & Assessments will be carried out.**

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