DM Consulting

Dry Dock Training

www.DryDockTraining.com

DM Consulting's Dry Dock Training Course is internationally recognized, accredited, and offered to a diverse clientele, including military, commercial, and private organizations from around the world.

INTERNATIONAL ACCREDITATION

SNAME MAKING WAVES IN THE MARITIME INDUSTRY

THE ROYAL INSTITUTION OF NAVAL ARCHITECTS

Continuing education credits available!

COURSE OVERVIEW

The Dry Dock Training Course provides in-depth technical guidance on the process of drydocking ships and vessels. The course begins with the basic principles and safety concerns, then progresses through all phases of drydocking; preparation and planning, drydocking, lay period, and undocking. The course ends with a discussion of past accidents. With over 150 years of dry dock experience, DM Consulting brings clarity and organization to an otherwise complex set of drydocking principles.

DM Consulting is the world leader in dry dock training. Past participants included representatives of shipyards, engineering companies, consulting firms, ship owners, and government agencies from six continents. See www.drydocktraining.com for details on the 4-day training course including a list of past attendees and testimonials. Both experienced and inexperienced dry dock personnel have benefited from attending the training. Over 75% of all course attendees rate the course as "excellent".

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COURSE BENEFITS

- Understand the Art and Science of drydocking ships and vessels.
- Understanding different dry dock advantages and disadvantages.
- Introduction to drydocking basics and safety concerns.
- Comprehend universal drydocking and undocking calculations.
- Hands-on course with student participation in projects and practical application exercises.
- Learn from past dry dock accidents and incidents.

WHO SHOULD ATTEND?

This training is targeted at:

- Dock Masters/Docking Officers
- Dry dock crews
- Launch/Load Masters-Marine Surveyors
- Naval Architects
- Port Engineers
- Consultants
- Owners Representatives
- Program/Project Managers
- Insurance personnel
- Others involved/interested in dry docks, drydocking vessels, launching ships, heavy lift operations, and vessel transfers.

WHEN IS THE NEXT COURSE?

See website for our current course offerings:

www.DryDockTraining.com/course-schedule.html

CUSTOMIZED COURSES AVAILABLE

We can conduct a customized course for your organization online or in-person.

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COURSE SYLLABUS

Day 1 – Fundamentals of Drydocking

Dry Dock Terminology – An introduction to essential dry dock terminology, including common symbols, abbreviations, and definitions used throughout the industry.

Drydocking Overview – A review of different types of dry docks (e.g., graving, floating, vertical lifts, slipways) and the general steps involved in a drydocking operation.

Ship Supports – A discussion of various block types (removable, hauling, hinged) and shores used to support a vessel safely in dry dock.

Naval Architecture and Stability – A review of basic ship structures, hydrostatics, and stability principles relevant to drydocking procedures.

Dry Dock Math and Science – Strengthening math skills related to decimals, fractions, rates, conversions, and applying forces/moments calculations to docking scenarios.

Day 2 – Detailed Calculations and Procedures

Collecting Information – Guidance on gathering critical dry dock data, docking plans, hydrostatics, and assessing the ship's condition and loading.

Blocking Plan Development – Details on creating blocking plans, evaluating interferences, and admissible docking plan deviations.

Drydocking Calculations – Detailed example of calculating loading, stability, and other operational requirements in accordance with industry standards.

Preparations Phase – Key tasks before the vessel arrives, including block construction, quality checks, emergency planning, and safety precautions.

Drydocking Phase – Procedures for personnel organization, communications, ship handling, positioning, landing, and checklists during docking.

Lay Period Phase – Considerations during the vessel's time in dry dock, including weight accounting, environmental factors, work safety, and storm preparations.

Undocking Phase – Final dock inspections, watertight integrity checks, refloating procedures, and undocking checklists.

Undocking Calculations – Weight changes, list, trim, stability at lift-off, and other considerations for a safe refloat.

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Day 3 – Practical Applications and Maintenance

Dry Dock Maintenance – Scheduled maintenance programs, material degradation, and upkeep for various dry dock types.

Open Questions Session – Attendee-provided scenarios, docking plan reviews, and evaluation unique challenges.

Drydocking Preparations Practical – Hands-on drydocking exercises and calculation practice to reinforce course concepts.

Day 4 – Advanced Operations and Assessment

Related Operations – Heavy lift operations, launchings, damaged vessels, simultaneous drydockings, and heavy weather events.

Drydocking Situations – Evaluation of docking scenarios, including special vessel configurations and unforeseen conditions.

Dry Dock Technology – Exploration of modern dry dock systems, emerging technologies, and innovative solutions.

Exam – A comprehensive assessment of technical knowledge and understanding of course materials.

Accidents – Analysis of past incidents, root causes, and lessons learned to enhance safety and prevent future accidents.

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