



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

This course provides in-depth technical guidance on the art and science of drydocking ships and vessels. Participants are guided through the full drydocking process from the fundamentals of drydocking, through core concepts, and advanced topics. The fundamentals include basic dry dock information, ship supports, and naval architecture. Core concepts focus on industry-standard procedures and calculations throughout all phases of a drydocking evolution. Advanced topics address special and related operations, emerging dry dock technologies, and lessons learned. Participation includes practical exercises, an exam, and dedicated time to review participants' unique challenges.

Past participants have included representatives from shipyards, engineering companies, consulting firms, ship owners, and government agencies across six continents. Over 75% of all course attendees rate the course as excellent, with both experienced and inexperienced dry dock personnel reporting significant professional benefit. A full list of clientele and participant testimonials is available at www.drydocktraining.com.

CONTACT US Alex Stiglich, PE Phone: +1 858-774-1270 Alex@DryDockTraining.com



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WHO IS DM CONSULTING?

Established in 2000, DM Consulting is recognized worldwide as a leading authority on the drydocking of ships and vessels and the world leader in dry dock training. DM Consulting personnel are dry dock experts with a combined 150+ years of experience in the industry, including involvement in over 5000 drydocking operations. DM Consulting brings proven technical knowledge and a highly developed skill set to the profession of dry dock engineering, maintenance, and operations. Leveraging extensive hands-on experience, DM Consulting can provide the technical expertise required for any dry dock project or problem. DM Consulting has provided services to over 800 clientele, including military, commercial, and private organizations from over 65 countries around the world.

WHO SHOULD ATTEND?

This training is targeted at:

- Dock Masters/Docking Officers
- Dry Dock Crew
- 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

Drydocking Introduction – An introduction to essential dry dock terminology and the general steps involved in a drydocking operation.

Types of Dry Docks – A review of different types of dry docks, basic characteristics, and unique attributes.

Ship Supports – A discussion of various blocks and shores used throughout the industry, contrasting the diverse industry approaches.

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 – Core 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.

Standard Procedures – Review of standard procedures through operational checklists covering the different phases of a drydocking operation.

Drydocking Examples – Expansive look into drydockings of different types of vessels on different platforms and special considerations.

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



Day 3 – Practical Applications

Ship Handling – Discussing ship handling systems and procedures; from wrapping a cleat to tug configuration.

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

Special Operations – Damaged vessels, simultaneous drydockings, and heavy weather events.

Related Operations – Heavy lift operations and launchings.

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.