



THE ROYAL INSTITUTION OF NAVAL ARCHITECTS

4 Day Programme

BASIC DRY DOCK TRAINING COURSE

11 - 14th May 2010

The Weir Lecture Hall, RINA HQ, London

By Mr Joe Stiglich

"Great class. A lot of information for 4 days. I learned a lot and value the information that you provided."

Benefits of Attending

This four day course covers the fundamentals and calculations of dry docking. The course begins with the basics and safety concerns, and progresses through all phases of dry docking: preparation, docking, lay period, undocking, and ends with a discussion of Accidents and Incidents.

It's designed to be relevant to Dock Masters, Docking Officers, Engineers, Naval Architects, Port Engineers and others involved in the dry docking of ships and vessels. The course is presented through classroom lectures, student participation in projects and practical application exercises. The course addresses the deck plate level of practical operation needed by the dock operator and the universally accepted mathematical calculations required to carry out operations in accordance with established sound engineering practices.

TOPICS TO BE COVERED INCLUDE:

- Dry docking terminology
- Calculations
- Vessel stability
- Dry dock planning
- Dry docking procedures
- Lay period
- Undocking procedures
- Incidents/accidents

PROGRAMME

Introduction

Math review

Ship stability

Symbols, Abbreviations, Definitions

Chapter 1 - Organization of Information

- A. Gathering pertinent information
- B. Important dry dock references
- C. Limitations

Chapter 2 - Preparing the Drydock

- A. Determine docking position of the vessel
- B. Determine physical location of basin blocking
- C. Keel block locations
- D. Trapezoidal loading
- E. Draft of instability
- F. Multiple Calculations
- G. Metric to standard calculation sheet
- H. Pumping plan
- I. Quick reference sheet
- J. Seismic / hurricane considerations
- K. Blocking preparations and construction
- L. Soft Caps
- M. Quality assurance

Chapter 3 - Readiness to Drydock

- A. Establishing dock / vessel communication
- B. Physical inspection of the vessel
- C. Listed vessels
- D. Trimmed vessels
- E. A docking checklist

Chapter 4 - Readiness of Personnel, Gear and Services

- A. Systems in support of the docking / undocking operation
- B. Ship support systems

- C. Work force support systems
- D. Emergency systems
- E. Readiness of gear
- F. Readiness of services
- G. Readiness of personnel
- H. Commands to line handlers

Chapter 5 - The Docking Evolution

- A. Preparation for docking
- B. The deflection plane
- C. Critical stages in the docking process
- D. Summarized actions to be taken
- E. Steps for a typical docking procedure
- F. Casualty procedures

Chapter 6 - Lay Period of Ship in Dock

- A. Assigned responsibilities
- B. Areas of great concern
- C. Check list for the preparation of undocking

Chapter 7 - The Undocking Evolution

- A. Weight control accounting
- B. Pre-undocking checks
- C. Final check of the dock basin
- D. Final preparation for undocking
- E. Ballasting and lift off of the ship
- F. Flood to depth for exit
- G. The ship is hauled out of the dock
- H. De-ballast and inspect dock
- I. Dock list control during undocking

Chapter 8 - Special Drydocking Situations

- A. Unique situations
- B. Specially designed ships
- C. Unique work in drydock
- D. Multiple ship dockings
- E. Hauling a ship in off-center
- F. Cold weather precautions
- G. Extreme overhangs
- H. Self-docking drydock section

Chapter 9 - Docking Incidents/Accidents

- A. Background
- B. Reporting requirements
- C. Analysis and trends

Chapter 10 - Wrap-Up

- A. Situations Exercise
- B. Exam
- C. Training Wrap-up

ABOUT THE COURSE LEADER

Joe Stiglich is a retired Naval Officer, qualified NAVSEA Docking Officer and holds a Masters Degree from MIT in Naval Architecture and Marine Engineering.

Responsible for over 250 safe docking and undocking operations. He currently runs a series of conference and training courses for personnel involved in all phase of the drydocking industry and acts as a consultant for ship repair companies.

LIMITED PLACES AVAILABLE

Please note that there are a limited number of places available on this course and any registrations made will be on a first come, first served basis. RINA expects to re-run this event in the UK in 2011. If you wish to receive details regarding this course or make a provisional advanced booking, please tick the box on the registration form provided.

Subject to demand we may be able to organise additional courses in other countries; such as Australia, Singapore or the Middle East. For further information about these options, please contact the RINA conference department directly.

VENUE & ACCOMMODATION

The venue for the training programme is the Weir Lecture Hall, RINA HQ, 10 Upper Belgrave Street, London. SW1X 8BQ. UK

Our reservation agents, The Corporate Team will be happy to help you with any accommodation requirements you may have. They can be contacted at: Tel: (UK only) 0845 604 4060, Tel: (Int) +44 20 7340 1610, Fax: +44 (0)20 7828 6439, e-mail: events@corporateteam.com or by post at 13 Grosvenor Gardens, London SW1W 0BD, UK. Or visit: www.corporateteam.com/events/0182RA for an online booking form.

CONTINUING PROFESSIONAL DEVELOPMENT (C.P.D)

C.P.D. Certificates of Attendance will be issued at the event, which contribute towards the Institution's requirements for Continuing Professional Development. For further details regarding C.P.D, please contact Giuseppe Gigantesco, Director of Professional Affairs on Tel: 44 (0)20 7235 4622 or via email at: profaffairs@rina.org.uk

CANCELLATION CHARGES

The following charges will be made in the event of a cancellation, £250 if received before 14th April 2010. Cancellations made anytime after that date will not be refunded. Delegates may be substituted; however this must be sent in writing and confirmed with the Conference Co-ordinator.

"Instructor was very experienced and offered good insight to the drydocking process. Gave good lecture, coupled with real experience stories. Very helpful during class exercises."

If you have any questions regarding this or any other RINA event, please contact Amber Williams;
Tel: 44 (0)20 7201 2401, Fax: 44 (0)20 7259 5912
Email: conference@rina.org.uk

Visit our Website @ www.rina.org.uk

REGISTRATION FORM - BASIC DRY DOCK TRAINING COURSE

To register complete ALL sections of the form below and return it to:
RINA, 10 UPPER BELGRAVE STREET, LONDON SW1X 8BQ, UK

By fax on: **+44 (0)20 7259 5912**
or e-mail: **conference@rina.org.uk**

Title (Dr. Mr. Mrs. Eur. Ing) _____ First name: _____
Surname: _____
Position: _____
Company: _____
Address & Postcode: _____

Telephone: _____ Fax: _____
Email: _____

Please indicate where you heard about this event

Do you wish to make a provisional booking for the next UK course in 2011.

Do you wish to be notified about future events ☐

Please indicate if you are a member of RINA ☐

REGISTRATION FEE includes a bound training manual, lunch and refreshments.

REGISTRATION FEE -		TOTAL
RINA MEMBERS:	£1015 + VAT*	£1192.63
NON-MEMBERS:	£1130 + VAT	£1327.75
GROUP FEE (3 delegates or more)	£1000 per head	£1175.00

Please indicate your preferred method of payment.

(Please note RINA requires payment before the conference date)

- ☐ I enclose a cheque/Eurocheque for £ _____
 - ☐ Please send me an invoice for £ _____
 - ☐ I enclose details of my bank transfer for £ _____
 - ☐ Please debit my credit card (VISA/AMEX/Mastercard) by £ _____ Expires: _____

Card No | | | | | | | | | | | | | | | |

Signature _____

Payment must be made in pounds sterling by Eurocheque, cheque drawn on a bank with a UK branch address, credit card (VISA/Amex/Mastercard) or bank transfer. Please note RINA required payment before the conference date. Account Name: The Royal Institution of Naval Architects. Account Number: 10042127. Account Code: 160016. Bank Address: Royal Bank of Scotland PLC, Belgravia Branch, 24 Grosvenor Place, London. SW1X 7HP, UK. IBAN No. GB14RBOS16001610042127. SWIFT No. RBSGB2L

*VAT: Under UK Customs and Excise regulations delegates from all countries are required to pay VAT on any course taking place in the UK. Delegates from outside the UK may be entitled to reclaim this cost.