



# **THE PRACTICE OF DRY DOCKING SHIPS**

**A Training Course for Dockmasters and Others Concerned with the Dry Docking of Ships**

**Presented by**

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## **PROSPECTUS**

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## INTRODUCTION

The trade of Dockmaster, world-wide, is a very small one compared to other trades and occupations. There is no formal establishment of dockmasters or of their trade. By and large dockmasters end up in the business without any deliberate intention of doing so. They learn the trade simply by doing the work. There is no formal path to becoming a dockmaster although most dockmasters have some prior trade they bring to the job; shipwrights will have a natural “feel” for ships and naval architects will have an understanding of ships and of the processes involved.

There is a need for a training course for dockmasters that recognises the diversity of backgrounds they have, provides them with a understanding of the processes of dry docking, explains, in a pragmatic fashion, the theoretical aspects of dry docking that are difficult to pick up from hands-on experience and explores the intricacies of dry docking. It must also recognise the prior experience such people bring with them.

The intention of this course is, in the first instant, to give the participants a broad understanding of the scope and of the fundamentals of dry docking. More explicitly it is to make them familiar with the text book, know where to look up any topic, to substitute into the formulae or follow the laid down procedures. They should be able to design safe and efficient procedures for their facilities. It should also serves to make the participants aware of the potential dangers in

dry docking, to recognise the danger signs and know when to call in expert help.

The course and the text book are intended for a wide range of people concerned with dry docking, from artisans to engineers, naval architects and dockyard managers. It would also be of use to mariners and ship owners or their agents who all have an interest in the dry docking of their ships.

Participants need to be numerate with at least a good trade background. Technical material has been simplified so as to give an understanding of the topics and an ability to use the formulae without a need for mathematics. Those with advanced technical backgrounds can look up the standard theories for themselves and the text and the course will provide them with an insight into the application of these theories and the intricacies of dry docking that is not available elsewhere.

Because of the scale and relative infrequency of actual dry docking operations, it is not practical to attempt training in hands-on trade practice. Participants are expected to have acquired this in the course of their work and the course is designed to rely on this previous experience in dry docking and to build on it.

Lunch and tea are considered to be a part of the program. They provides time for general unstructured group discussion around the subject and provide continuity to the course.

Training Course for Dockmasters

**COURSE SPECIFICATION**

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<b>Course Title:</b>	The Practice of Dry Docking Ships
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<b>Course Structure:</b>	22 hours lectures plus discussions, site visits and a tutorial over 5 full days intensive training.
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<b>Accreditation:</b>	This training course was accredited by the Maritime Chamber of the South African Transport Education & Training Authority, accreditation registration certificate number A026-99 issued 1st April 1999.
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<b>Objective:</b>	This course is based on the principle of <i>Recognition of Prior Learning</i> . It is designed to give people working in dry docking a background to the field, to co-ordinate the skills they have already acquired in practice and to give them a basic knowledge of the theoretical principles that apply. The course is designed to give them an understanding of their work so that they may do this more efficiently and safely.
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<b>Pre-requisites:</b>	<p>Either persons permanent employed or involved in dry docking or technical or management personnel concerned with dry docking.</p> <p>Participants need to be numerate and literate in English with at least a good trade background. Technical material has been simplified to give an understanding of the topics and an ability to use the formulae without a need for mathematics.</p> <p>For those with advanced training, the course will provide an insight into dry docking that is not available elsewhere.</p>
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<b>Class Size:</b>	The preferred class size is from 10 to 15 persons permitting close interaction between the class and the lecturer.
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<b>Benefits:</b>	The course promotes the design and develop of efficient and safe practices for the planning and preparation for dry docking ships to suit any facility, for the procedures used during docking and for the maintenance of the facility. Participants also gain an enhanced understanding of dry docking and an ability to recognise danger signals.
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<b>Summary of Aims:</b>	<ul style="list-style-type: none"><li>a) To understand the provenance of dry docks – the types of docks and the types of ships that use the docks</li><li>b) To gain an intuitive understanding of structures and hydrostatics; an awareness of the behaviour of docks and ships; an awareness of the potential danger points and a sense of when to call in specialist assistance.</li></ul>
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### Training Course for Dockmasters

- c) To understand simple formulae to check loads and stability and how to use them.
- d) To be familiar with the practice of dry docking.
- e) To have a knowledge of the management and maintenance of dry docks, the environment and the dangers of pollution.

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#### Teaching and Learning Strategy:

Each participant will be provided with a copy of the textbook **Dry Dock Manual**. The program is an intensive course of five morning lectures and discussions which explains the manual chapter by chapter and teaches the delegates the use of the manual.

A *Powerpoint* presentation will be used to display the pages of the text being discussed and any other illustrative material which will be presented in accordance with the ideas of Richard Skemp that:–

1. *Concepts of a higher order than those which people already have cannot be communicated to them by a definition but only by arranging for them, to encounter a suitable collection of examples.*
2. *Since in mathematics these examples are almost invariably other concepts it must first be ensured that these are already formed in the mind of the learner.*

Afternoons will be devoted to discussions of the morning's lectures for clarification and to visits to actual, available facilities to observe various features on site.

Lunch and tea are considered to be part of the program. They provide time for general unstructured group discussion around the subject and provide continuity to the course.

The tutorial and interview, besides serving an assessment function, are used to correct any misconceptions and to fix the basic course content in the participants' minds.

The course is mobile and can be taken to the dockyard. Only a suitable local board room or meeting room with white or black board and OHP is needed. Video facilities and slide projector will allow videos and slides to be shown but are not essential.

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**Assessment:** Participants will generally be people well into their careers for whom formal exams would be inappropriate. They will be assessed by observation during the program, by performance in a guided tutorial and by interview at the conclusion of the course. The tutorial answer sheets will be used to guide each of the interviews.

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**Certificate:** On successful completion of the course, each participant will be issued with a certificate.

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## COURSE CONTENT

Based on textbook

### Dry Dock Manual

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## Training Course for Dockmasters

# COURSE PROGRAMME

The training course takes five days.

The recommended schedule is Monday to Friday inclusive but other schedules can be accommodated by arrangement.

Day 1	08:30 - 11:00	Registration, introduction & lectures
	11:00 - 11:30	Tea
	11:30 - 13:30	Lectures
	13:30 - 14:30	Lunch
	14:30 - 16:30	Discussion/Visit to local dry docking facilities.
Day 2	08:30 - 11:00	Lectures
	11:00 - 11:30	Tea
	11:30 - 13:30	Lectures
	13:30 - 14:30	Lunch
	14:30 - 16:30	Discussion/Visit to local dry docking facilities.
Day 3	08:30 - 11:00	Lectures
	11:00 - 11:30	Tea
	11:30 - 13:30	Lectures
	13:30 - 14:30	Lunch
	14:30 - 16:30	Discussion/Visit to local dry docking facilities.
Day 4	08:30 - 11:00	Lectures
	11:00 - 11:30	Tea
	11:30 - 13:30	Lectures
	13:30 - 14:30	Lunch
	14:30 - 16:30	Tutorial/discussion
Day 5	08:30 - 11:30	Assessment interviews and course feed-back questionnaire.
	11:30 - 12:00	Presentation of certificates and closure.

Venue            The preferred location for the course is at or near a dockyard with a variety of dry docking facilities available for site visits. A suitable local board room, meeting room or school room with white or black board and OHP is needed. Video facilities and slide projector are recommended but not essential. Facilities for tea and lunch nearby must be available.