

DIRECTORATE GENERAL OF SHIPPING		
TRAINING BRANCH		IS/ISO Clause No. 7.1
Ref.: QMS: EACQP - 07-1  Page : 1 of 5	Subject : Mandatory guidelines for obtaining approval for conduct of Familiarization Training Programme to serve Onboard Dredgers	File No. TR/CIR/6(2)/2012
Approved by : DG	Circular No. : Training Circular No. 2 of 2012	Date 19.04.2012

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### BASIC DETAILS OF THE COURSE

#### 1.1 AIMS:

This course provides training for Officers and ratings who have not previously served on board the dredgers as part of regular complement. It comprises of a familiarization training programme appropriate to their duties including operational practice, pollution prevention in dredge/deck department of a dredger.

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## 1.2 Objective

Those successfully completing the course should enable the candidate serve on Dredgers in a capacity other than master and be able to operate or give support to those directly responsible for the dredging equipment and its operations and maintenance.

## 2. QUALIFICATIONS & ELIGIBILITY FOR ENTRANTS

### 2.1 Entry standards

This course is open to candidates who are in possession of CDC as GP rating, deck cadets or a CoC holder officer and wish to perform their career in dredging field and have completed a DGS approved shore-based pre-sea training.

### 2.2 Required attendance

100% attendance is required for successful completion of the course. However, in exceptional circumstances, a student is allowed absence of up to one day subject to his attending the lectures missed out during the next course at the same institute. The institute shall keep proper records of such cases.

### 2.3 Course intake limitations

The number of trainees should not exceed 20, and practical training should be undertaken in small groups of not more than four.

## 3. Course Details

- 3.1 Course Duration : 2 weeks  
3.2 Course Outline : As per Annexure -1

## 4. FACULTY REQUIREMENT

### 4.1 Qualifications and experience of Training Staff

The Course-in-charge shall hold a Certificate of Competency as Dredge Master Gr-1; or

Master (F.G.) issued or recognized by the Government of India. The Master (F.G) must have worked onboard dredgers for atleast three years. Additionally, both types of certificate holders should have been Master onboard for atleast one year on Trailer Suctin Hopper Dredgers.

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4.2 Additional faculty shall hold a Certificate of competency as Dredge Master Gr-1; or

Master (F.G.) issued or recognized by the Government of India and at least 3 years service onboard dredgers out of which at least one year should be in the rank of a Chief Officer / 2<sup>nd</sup> Officer. They shall have experience of at least 6 months on Trailer Suction Hopper Dredgers in a certified rank.

4.3 Visiting Faculty Members:

Qualification and experience of the visiting faculty should be at the discretion of course-in-charge to suit to the corresponding subject. However, he must have at least 3 months working experience onboard dredgers and knowledge about functioning of dredgers.

4.4 Age limit for regular faculty members

As per DGS Order of No.1 of 2003.

5. **FACULTY STRENGTH**

5.1 Two (Inclusive of course-in-charge)

5.2 Minimum of 50% of the entire portion must be covered by permanent faculty.

6. **COURSE DURATION**

A total of 60 hours of lectures, including practical training and assessment.

7. **ASSESSMENT**

Assessment shall be carried out at the end of each course and a minimum of 50% must be obtained to declare the trainee to be successful.

8. **QUALITY STANDARDS**

As per DGS Order No.1 of 2003

9. **INSPECTIONS**

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As per DGS Order No.1 of 2003

**10 COST OF INSPECTIONS**

As per DGS Order No.1 of 2003

**11 FEE TO GOVT.**

As per DGS Order No.1 of 2003

**12 PROCESSING FEES** for approval of the course shall be Rs. 25,000/-.

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### COURSE OUTLINE

### ANNEXURE-1

S.No.	Subject Area	
1.	General Introduction of Dredging	1 <sup>st</sup> week
1.1.	Definition & History	
1.2.	Types of dredgers (Grab dredgers, Cutter Suction Dredgers & TSHD), applications and selection	
2.	Definition of important dredging parameters	
3.	Trailing Suction Hopper Dredgers	
3.1	Operational characteristics, dredging processes	2 <sup>nd</sup> week
3.2	Main systems and components	
4.	Instrumentation & Automation	
4.1	Dredging Instrumentation	
4.2	Measurements and control systems for dredging equipment	
5.	Practical and Management Aspects of dredging	
5.1	Loading and discharging – Best principles	
5.2	Management operation to maintain personal safety	
5.3	Specific stability problems,- Awareness of free surface effects	
5.4	Bottom hazards, including power cables, gas pipes, objects retrieved – Proper procedures to follow	
5.5	Air draft considerations including power cables	
5.6	Navigation hazard – Awareness of causing/ being one;-	
5.7	Displaying appropriate signals	
5.8	Liaison with navigation authorities and other users	
5.9	Personal safety – awareness of risks to	
5.10	Awareness of requirements and procedures for disposal of spoil	
6.	Maintenance and wear aspects	
7.	Evaluation	

\* Basic information only and the above training will be imparted by the company itself and documentary evidence will be submitted to the authorities.