

Course Description Form

Basic Course Specifications				
Course Title	: Operative Cargo Handling & Stowage			
Course Code	: TI 352			
Program on which the course is given	: <input type="checkbox"/>	: <input type="checkbox"/> Diploma	: <input type="checkbox"/> Master	: <input type="checkbox"/> Pre- PhD
	: <u>Bachelor</u>			
Academic year	: 2015/2016			
Specialization (units of study)	: Application : 180 Hrs. (Credit :3H)			
Pre-Requisites	: BS 214 & BS 235			
Overall Course Objectives				
<p>This syllabus covers the requirements of the STCW 78 Convention, as amended (Manila 2010) Chapter II, Section A-II/1. This function element provides the detailed knowledge to support the training outcomes related to Cargo Handling and Stowage at the operational level. The students should be able to:</p> <ul style="list-style-type: none"> • Monitor the loading, Stowage and unloading of cargoes and their care during the voyage. • Inspect and report defects and damage to cargo spaces, hatch covers and ballast tanks. 				
Intended Learning Outcomes				
Knowledge and Understanding				
<p>The student should be able to:</p> <p>a.1Realize care and maintenance of cargo handling equipment. a.2Describe how to make preparation and inspection of holds. a.3Explain the need for segregation and separation of different cargoes. a.4Demonstrate the use of cargo handling safety criteria. a.5Describe the types of ventilation and the ventilation rules. a.6State the cargoes that carried on deck and how to stow and secure it. a.7Describe types and sizes of container in use and determine his position. a.8List potentially dangerous spaces and state precautions before entering enclosed or contaminated spaces.</p>				
Intellectual Skills				
<p>By the end of the program the students should have acquired the following concepts :</p> <p>b.1Taking a quick, appropriate, and accurate decision if required. b.2 Distinguish between bale capacity and grain capacity and determine when to use each one of them. b.3Be able to deal with different crews from different countries with different attitudes and background b.4 Describe the arrangement of a container ship and explain how the position of a particular container is designated. b.5 Use IMDG code for segregation and separation process.</p>				
Professional and Practical skills				
<p>The student should be able to:</p> <p>c.1Read load line and draught. c.2Calculate mean draught and trim and determine the approximate weight loaded or discharged. c.3Measure density of the water. c.4The student should be existed during the preparation and inspection of some holds. c.5The student should be existed during the usage of cargo handling equipment in loading and discharging of cargo. c.7Know the types of ventilation existed on his vessel. c.7Stow and secure container on deck. c.8Execute the regulations of check list before entering enclosed or contaminated spaces. c.9Calculate the amount of cargo to be loaded in a specific hold. c.10Measure ballast water tanks and fresh water tanks and calculate the weight of ballast water in</p>				

a specific tank.

General and Transferable skills

At the end of the course, students should be able to:

d.1 Handle with IMO references.

d.2 Deal with stability booklet for any vessel.

d.3 Deal with cargo handling equipment

Course content				
WK. #	Topic	Hrs#	Theoretical	Practical
1	Load Line and Reading Draught	9		9
2	Draught	9		9
3	Trim	9		9
4	Cargo Handling equipment	9		9
5	Cargo Handling equipment	9		9
6	Inspection and preparation of Holds	9		9
7	Assessment	9		9
8	Segregation and separation of cargo	9		9
9	Cargo Handling Safety	9		9
10	ventilation and control of sweat	9		9
11	Deck Cargo	9		9
12	Assessment	9		9
13	Deck Cargo	9		9
14	Container cargo	9		9
15	Container cargo	9		9
16	Precautions before entering enclosed or contaminated spaces	9		9
17	Precautions before entering enclosed or contaminated spaces	9		9
18	Cargo calculations	9		9
19	Ballast Water Tank Calibration Tables	9		9
20	Final Assessment	9		9

Teaching & learning methods				
Practical Work , Group Work , Individual Study, Demonstration, Lecture				
Facilities required for Teaching & learning methods				
<input type="checkbox"/> Computer Lab	<input type="checkbox"/> Overhead Slide	<input type="checkbox"/> Guided Sea Training work Book	<input type="checkbox"/> Deck equipment	<input type="checkbox"/> Port equipment
Students Assessment Methods				
Assessment Submission Schedule				
Assessment#1: Written and Oral examination			Post voyage 2	
Assessment#2: Written and Oral examination			Post voyage 4	
Assessment#3 : Written and Practical examination			During Final Training voyage	

Grading Method		
Attendance		None
Practical watch evaluation	<input type="checkbox"/>	Continuous 30 Marks
Presentations		None
Practical Assignments	<input type="checkbox"/>	20 Marks
Projects		None
Participation		None
Oral Examination	<input type="checkbox"/>	10 Marks
Final Examination	<input type="checkbox"/>	40 Marks
		Total 100%
*Assessment criteria shall meet the standards of the STCW 78 convention "as amended"; and in the light of the related IMO model courses		
List of References		
Course Notes		
Description	:	<ul style="list-style-type: none"> • Guided Sea Training Book (Part 1)
Essential Books		
Description	:	<ul style="list-style-type: none"> • Ship Stability for Masters and Mates ,seventh edition • Cargo Work ,captain L. G Taylor • Seamanship techniques , third edition
IMO		
Description	:	<ul style="list-style-type: none"> • International Convention on Standards of Training, Certification and Watch keeping for Seafarers(STCW),1978, as amended • International Convention for The Safety of Life at Sea (SOLAS),2009 • International Convention on Load Lines,1966 • Assembly resolution A.715(15)- Code of Safe Practice for Ships Carrying Timber Deck Cargoes • Assembly resolution A.288(VIII)- Recommendation on the Safe Stowage and Securing of Containers on Deck
Periodicals and publications		
Description	:	<ul style="list-style-type: none"> • Stability book • Tank Sounding Table
Others (websites, e-books...etc)		
Description	:	<ul style="list-style-type: none"> • www.imo.org