

## Offshore Cargo Handling

Basic Course Specification								
Course Title		Course Code		Program on which the course is given				
Offshore Cargo Handling		OS 455		Bachelor				
Academic Year		Specialization (units of study)		Pre-Requisites				
2020-2021		Theoretical	1 hrs./week	BS 251				
		Application	3hrs./week					
		Credit	2 Cr					
Overall Course Objectives								
On completion of this course, students should gain the knowledge for responsibilities and duties for vendors, logistics service provider and vessel operator, lifting operations, deck cargo handling, tubular cargo - challenges faced by vessel crews, offshore transfer of personnel to or from vessels, bulk cargo handling, dangerous and noxious liquid cargoes.								
Course Learning Outcomes By successful completion of the course each student will be able to:								
Topic				Linking to PLOs	Midterm Assessment	12 <sup>th</sup> Week Assessment	Class Activities	Final Exam
1. Describe Lifting Operations.				j	√			
2. Identify Responsibilities and duties for vendors, logistics service provider and vessel operator.				g	√	√		√
3. Apply personal transfer requirements to or from offshore Vessels.				j		√	√	√
4. Identify how to cope with problems during loading and unloading.				j		√		√
5. Describe ways of dealing with dangerous goods.				e	√		√	√
Course Content								
Lec./ Week #	Topic			Hrs. #	Theoretical	Application		
1	Introduction – abbreviation			4	1	3		
2	Responsibility and duties- -Vendors - Logistics service provider -- Vessel operators			4	1	3		
3	Lifting operations definition - lifting operations flowchart - Responsible Person			4	1	3		
4	Lifting operations The Compete - The competent person’s responsibilities - Technical Authority - Lift Supervisor			4	1	3		
5	Lifting Operations Categorization of Lift - Routine or Non-Routine Factors to consider for lift categorization Lifting Equipment - Loads and Lifting Arrangements			4	1	3		

6	Lifting Operations Lifting Environment - Lifting Team – Communications - Defining Routine and Non-Routine Lifts - Routine Lifts - Non-Routine Lifts	4	1	3
7	7 <sup>th</sup> Week Exam	4	1	3
8	Deck Cargo Introduction - Cargo Carrying Unit “CCU	4	1	3
9	Tubular Cargo Introduction - Tubular cargo - challenges faced by vessel crews - Tubular cargo – Solutions	4	1	3
10	<ul style="list-style-type: none"><li>– Tubular cargo – Preference #1</li><li>– Tubular cargo – Preference #2</li><li>– Tubular cargo – Preference #3</li><li>– Tubular cargo – Phase out</li></ul>	4	1	3
11	Offshore Transfer of Personnel to or from Vessels Requirements - General Preparations, Precautions and Procedure - Authorization for Personnel Transfers Experience and Competency of Supervisors and Operators - Personal Protective Equipment Environmental Restrictions	4	1	3
12	12 <sup>th</sup> Week Exam	4	1	3
13	Bulk Cargo Handling Bulk cargo handling – challenges - Bulk cargo handling – Hoses and Fittings Bulk cargo – Fittings Incompatibility - Lessons Learned Bulk cargo – Back Loaded Liquid Cargo Bulk cargo – Extract from GOMO Bulk cargo –Requirements	4	1	3
14	Bulk Cargo Handling <ul style="list-style-type: none"><li>– Vessel Master’s responsibilities</li><li>– Vessel responsibilities at the installation</li><li>– Installation responsibilities</li></ul>	4	1	3
15	Dangerous and Noxious Liquid Cargoes <ul style="list-style-type: none"><li>– Vessel Personnel</li><li>– On Shore Personnel</li></ul>	4	1	3
16	Final Assessment			
Total		60	15	45
Teaching & Learning Methods		Facilities Required for Teaching & Learning Methods		
<ul style="list-style-type: none"><li>• Explaining and demonstrating the lesson contents – Delivery of experience - discussing and asking questions to interact with students – solving examples.</li></ul>		White Board& Data Show		
Students Assessment Methods				
Assessment Schedule				
Assessment#1		Week 7		

Assessment#2	Week 12	
Assessment#3	Week 16	
Grading Method		
Midterm Assessment	Written exam	30%
12 <sup>th</sup> week Assessment	Written exam	20%
Class Activities	Participation – Quiz	10%
Final Exam	Written exam	40%
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.		
Staff Requirements		
Master FG/Ph.D.		
List of References		
Course Notes	Essential Books	
None	<ul style="list-style-type: none"><li>Guidelines for Lifting Operations IMCA SEL 019, IMCA M 187 – October 2007</li></ul>	
Recommended Books	Periodicals and Publications	
<ul style="list-style-type: none"><li>Code of Practice for Packing of Cargo Transport Units (CTUs)</li><li>Cargo Securing Manual</li><li>Design and Handling of Cargo Baskets</li></ul>	<ul style="list-style-type: none"><li>Guidelines for Lifting Operations</li><li>Guidelines for Offshore Marine Operations’.(GOMO)</li></ul>	
Others (websites, e-books...etc)		
None		

<b>Accreditation Bodies</b>
*Egyptian Authority for Maritime Safety (EAMS) *European Commission (EC) *ISO (9001 – 2015) DNV-GL* *Central Evaluation and Accreditation Agency Hanover, Germany (ZEVA) *Ministry of Education (KSA) Ministry of Higher Education (Greece)* *Ministry of Higher Education (Oman) *Commission for Academic Accreditation (CAA), Ministry of higher Education (UAE) *University of Plymouth, United Kingdom (dual degree)

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