## **Offshore Operations**

Basic Course Specification						
Course Title	Course Code		Program on which the course is given			
Offshore Operations	OS 410		Bachelor			
Academic Year	Specialization (units of study)		Pre-Requisites			
2020-2021	Theoretical Application Credit	1 hrs./week 3 hrs./week 2 Cr	None			
Overall Course Objectives						

On completion of this course, students should be gaining the knowledge for the relationship between the vessel and the offshore base, Master & base manager responsibilities. As well as anchor handling operations, the equipment used and the procedures in shallow waters and +300 m depths in addition to wire rope socketing, maintenance and to give participants knowledge and ability to inspect wire ropes according to IMCA's recommendations. Also, the objective of this course is to give the participant the necessary knowledge of towing operations, Types of Personnel transfer and methods of mooring used with the offshore operations. Causes of Wire Rope Deterioration and Guidance on Discard.

Topic	Linking to	Midterm Assessment	12 <sup>th</sup> Week Assessment	Class Activities	Final Exam
1. Apply operations Roles and Responsibilities	g	$\sqrt{}$	$\sqrt{}$		$\sqrt{}$
2. Recognize how to deal with various types of anchor har and mooring equipment	dling	V		<b>V</b>	V
<b>3.</b> Describe anchor handling and towing operations plane.	f	$\sqrt{}$			$\sqrt{}$
<b>4.</b> Apply the safety precautions during the various operatio	ns. c		$\sqrt{}$		
5. Apply Operational Risk Management	e	V	V		

Course Content					
Lec./ Week #	Торіс	Hrs. #	Theoretical	Application	
1	Responsibilities. Anchor handling Operations.	4	1	3	
2	Anchor handling Operations. Anchor handling equipment cont.	4	1	3	
3	Operational Procedures (PCP Operations). Cont. Operational Procedures (PCP Operations)	4	1	3	

Course Content						
Lec./ Week #	Topic			Theoretical	Application	
4	Anchor handling operations in deeper water.  Cont. Anchor handling operations in deeper water.			1	3	
5	Towing Operations. Cont. Towing Operations.			1	3	
6	Cont. Towing Operations. Cont. Towing Operations.		4	1	3	
7	7 <sup>th</sup> Week Exam		4	1	3	
8	Personnel transfer operation. Pre-lift Planning.		4	1	3	
9	Mooring operations. Buoys		4	1	3	
10	SPM Location and Water Depth SPM – advantages		4	1	3	
11	Causes of Wire Rope Deterioration and Guidance on			1	3	
12	12 <sup>th</sup> Week Exam		4	1	3	
13	Cont. Causes of Wire Rope Deterioration and Guidance on Discard. Abrasion, Crushing and Crossover Damage			1	3	
14	Basket/Lantern/Birdcage Deformation.			1	3	
15	Diameter Reduction as a Result of Core Deterioration,			1	3	
16	16 Final Assessment					
		<b>Total Hours</b>	60	15	45	
Te	eaching & Learning Methods	Facilities Requ		r Teaching & chods	Learning	
<ul><li>content</li><li>Deliver</li><li>Discuss</li></ul>	ry of experience sing and asking questions to interact adents- Solving examples	White Board& Da	ata Shov	W		
Students Assessment Methods						
Assessment Schedule						
Assessment#1 Week 7						
		Week 12				
	Assessment#3		Wee	ek 16		
Grading Method						

Course Content							
Lec./ Week#	Торіс			Hrs. #	Theoretical	Application	
Midterm Assessment Written			tten exam	30%			
12 <sup>th</sup> week Assessment Written exam				20%			
C	lass Activities	Particip	pation - Quiz		10%		
	Final Exam	Written exam			40%		
				otal	100 %		
Assessme	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 F	G/Ph.D.				
		List of Re	eferences				
Course Notes			Essential Books				
	Lecturer notes		Offshore support vessels				
Recommended Books		Periodicals and Publications					
<ul> <li>Offshore Service vessels ,Tugs and Special ships</li> <li>Guidelines for Offshore Marine Operations</li> <li>a practical guide to the mooring and anchoring of small boats. Maersk training course.</li> </ul>							
Others (websites, e-booksetc)							
None							

## **Accreditation Bodies**

- \*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)

Prepared By: Course Coordinator Reviewed By: Head of Department

H. Elsayad M. Nassar

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