Liquid Cargo

Basic Course Specification		
Course Title	**Course Code**	**Program on which the course is given**
Liquid Cargo	OS 454	Bachelor
Academic Year	**Specialization** (units of study)	**Pre-Requisites**
2020-2021	Theoretical 1 hr./week Application 3hrs./week Credit 2 Cr	BS 251

Overall Course Objectives

This course covers the requirements of the following:

1. Serve on oil tankers in a capacity other than Master, Chief Mate.
2. Perform specific duties and responsibilities.

Connect with cargo handling equipment and marine pollution prevention.

Course Learning Outcomes By successful completion of the course each student will be able to:

Topic	Linking to PLOs	Midterm Assessment	12th Week Assessment	Class Activities	Final Exam
1. Demonstrate and explain the basic properties of petroleum and its hazards.	h	√		√	√
2. Describe the general precautions for tanker's safety	i	√		√	√
3. Describe the general arrangement of oil tanker design and equipment.	i		√		√
4. Demonstrate the hazards associated with the handling and carriage of petroleum.	j		√	√	√
5. Perform specific duties and responsibilities.	k	√		√	√

Course Content

Lec./ Week #	Topic	Hrs. #	Theoretical	Application
1	Introduction, Oil Tanker Types.	4	1	3
2	Tanker Terminology.	4	1	3
3	Tanker Terminology. Basic Properties of Petroleum and its Hazards.	4	1	3
4	Tanker Operation Simulator Tanker Arrangement, Tanker Piping, Tanker Construction.	4	1	3
5	Oil Tanker Design and Equipment.	4	1	3
6	Oil Tanker Design and Equipment.	4	1	3
7	**7th Week Exam**	4	2	2

8	Inert Gas Systems.	4	1	3
9	Oil Tanker Operation.	4	1	3
10	Crude Oil Washing.	4	1	3
11	Tanker Safety. Emergency Measures.	4	1	3
12	**12th Week Exam**	4	1	3
13	Loading, Discharging Operation Using the Tanker Simulator.	4	1	3
14	Pollution Prevention.	4	1	3
15	LPG & LNG General Leading, Discharging, Pressurized Ship Refrigerated Ships, Semi Refrigerated.	4	1	3
16	**Final Assessment**			
	Total Hours	**60**	**16**	**44**

Teaching & Learning Methods	**Facilities Required for Teaching & Learning Methods**
• Explaining and demonstrating the lesson contents • Delivery of experience • Discussing and asking questions to interact with students • Solving examples.	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%
12th 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**
Lecturer notes	Cargo Work
Recommended Books	**Periodicals and Publications**

International Convention for the prevention of Pollution from Ships	MARPOL 1973, 1978, Annex 1, Crude Oil Washing Systems. IMO references : International Convention on Standards of Training, Certification and Watch keeping for Seafarers (STCW),with Amendments.
Others (websites, e-books…etc)	
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)

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