## Course Description Form

| Basic Course Specifications | | | | | |
|---|---|---|---|---|---|
| **Course Title** | : | **Offshore Cargo Handling** | | | |
| **Course Code** | : | **OS 455** | | | |
| **Program on which the course is given** | : | ❒ **Bachelor** | ❒ **Diploma** | ☐ **Master** | ☐**Pre- PhD** |
| **Academic year** | : | **2015/2016** | | | |
| **Specialization** (units of study ) | : | Theoretical (64. hrs ) Simulator (.0. hrs) Practical (..0 hrs) Credit (2H) | | | |
| **Pre-Requisites** | : | None | | | |

### Overall Course Objectives

On completion of this course, students should be gaining 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.

### Intended Learning Outcomes

#### Knowledge and Understanding

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

A1 Identify Responsibilities and duties for vendors, logistics service provider and vessel operator.
A2 Describe Lifting Operations.
A3 Identify types of cargo.

#### Intellectual Skills

At the end of the course, students should be able to:
B1 How to deal with all the parties involved in the transport of goods
B2 Implement the correct procedures during the transport of cargo operations

#### Professional and Practical skills

At the end of the course, students should be able to:
C1 Identify Offshore Transfer of Personnel to or from Vessels Requirements.
C2 Understand General Preparations, Precautions and Procedure
C3 Understand Ways of Bulk Cargo Handling

#### General and Transferable skills

At the end of the course, students should be able to:
D1 Identify how to cope with problems during loading and unloading.
D2 Description ways of dealing with dangerous goods.

**Course content**

| Lect. | Topic | Hrs.# | Theoretical | Practical | Simulator |
|---|---|---|---|---|---|
| 1 | Introduction - abbreviation | 4 | 4 | | |
| 2 | - Responsibility and duties- -Vendors - Logistics service provider -- Vessel operators | 4 | 4 | | |
| 3 | **Lifting Operations** Definition - Lifting Operations Flowchar - Responsible Person | 4 | 4 | | |
| 4 | **Lifting Operations** The Compete - The competent person's - responsibilities - Technical Authority - Lift Supervisor | 4 | 4 | | |
| 5 | **Lifting Operations** Categorization of Lift - Routine or Non-Routine Factors to Consider for Lift Categorization Lifting Equipment - Loads and Lifting Arrangements | 4 | 4 | | |
| 6 | **Lifting Operations** Lifting Environment - Lifting Team – Communications - Defining Routine and Non-Routine Lifts - Routine Lifts - Non-Routine Lifts | 4 | 4 | | |
| 7 | Revision - 7th Week Examination. | 4 | 4 | | |
| 8 | **Deck Cargo** Introduction - Cargo Carrying Unit "CCU | 4 | 4 | | |
| 9 | **Tubular Cargo** Introduction - Tubular cargo - challenges faced by vessel crews - Tubular cargo – Solutions | 4 | 4 | | |
| 10 | **Tubular Cargo** – Tubular cargo – Preference #1 – Tubular cargo – Preference #2 – Tubular cargo – Preference #3 – Tubular cargo – Phase out | 4 | 4 | | |
| 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 | 4 | | |

| | | | | | |
|---|---|---|---|---|---|
| 12 | **12th week assessment** | 4 | 4 | | |
| 13 | **Bulk Cargo Handling**<br>Bulk cargo handling – challenges -<br>Bulk cargo handling – Hoses and Fittings<br>Bulk cargo – Fittings Incompatibility - Lessons Learned<br>Bulk cargo – Back Loaded Liquid Cargo<br>Bulk cargo – Extract from GOMO<br>Bulk cargo –Requirements | 4 | 4 | | |
| 14 | **Bulk Cargo Handling**<br>– Vessel Master's responsibilities<br>– Vessel responsibilities at the installation<br>– Installation responsibilities | 4 | 4 | | |
| 15 | **Dangerous and Noxious Liquid Cargoes**<br>– Vessel Personnel<br>– On Shore Personnel | 4 | 4 | | |
| 16 | Final Examination. | 4 | 4 | | |

## Teaching & learning methods

Explanation of the lesson contents – discussing and asking questions to interact with students – solving examples and classroom tasks.

## Facilities required for Teaching & learning methods

| | | | | |
|---|---|---|---|---|
| ❒ **Projector** | ❒ Overhead Slide | ❒ **Books** | ❒ **Video** | ❒ Audio Cassette |

## Students Assessment Methods

**Assessment Schedule**

| | |
|---|---|
| Assessment#1 | Week 7 |
| Assessment#1 | Week 12 |
| Assessment#1 | Week 16 |

## Grading Method

| | | |
|---|---|---|
| Attendance | | |
| 7th Week Examination | ❒ | **30 Marks** |
| 12th week exam | ❒ | **20 Marks** |
| Assignments | ❒ | **5 Marks** |
| Projects | | |
| Participation | ❒ | **2.5 Marks** |
| Oral Examination | ❒ | **2.5 Marks** |
| Final Examination | ❒ | **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 | : | Lecture notes recommended and revised by the course coordinator(s). |
| **Essential Books** | | |
| Description | : | • **Guidelines for Lifting Operations**<br>IMCA SEL 019, IMCA M 187 – October 2007 |
| **Recommended Books** | | |
| Description | : | • **Guidelines for Lifting Operations**<br>• **Guidelines for Offshore Marine Operations'.(GOMO)**<br>• **Code of Practice for Packing of Cargo Transport Units (CTUs)**<br>• **Cargo Securing Manual**<br>• Design and Handling of Cargo Baskets |
| **Periodicals and publications** | | |
| Description | : | Nil |
| **Others (websites, e-books…etc.)** | | |
| Description | : | Nil |