

**BHARATHIARUNIVERSITY: COIMBATORE-641 046**  
**CERTIFICATE IN SHIPS ONBOARD FAMILIARIZATION**

**(For the CCII students admitted from the academic year 2016-17 onwards)**

Familiarization is a key process for shipboard operation. In its absence, the beginners will have to be closely supervised during hazardous operations and fruitful man hours of the crew will be lost. This course will address this vital issue and enable the crew to perform their task on optimum scale.

Course Objective:

1. To familiarize the student with onboard practices
2. To create awareness of the systems and procedures prevailing Ship onboard
3. To familiarize the student with his obligations
4. To be cautious on safety, security and pollution aspects

Duration: 6 Months

**SCHEME OF EXAMINATION**

Sl.No.	Course Title	Examination	
		Duration (Hrs)	Total Marks
1	Dry Cargo Familiarization	3	100
2	Ship Onboard Activities	3	100
3	Safety,Security And Pollution Awareness	3	100
	TOTAL		300

Reference books:

- 1) Bulk Carrier Practices - by Capt. J.IsbesterExC FNI.
- 2) Thomas Stowage - by Capt. K.S. Rankin
- 3) The Best Seaman ship Guide

## **1. DRY CARGO FAMILIARIZATION**

**OBJECTIVE:**

The students will learn the various processes involved in the dry cargo operation

**UNIT I**

Bulk carriers past, present and future – structure and construction of a bulk carrier –types of bulk carrier

**UNIT II**

Bulk cargo trade – Chartering, charter parties

**UNIT III**

Cargo care – Cargo handling – General communication – Onboard communication – External Communication

**UNIT IV**

Types of cargo – planning of loading operation - carriage of hazardous cargo – cargo documentation

**UNIT V**

Practical – Ship visit

## **2. SHIP ONBOARD ACTIVITIES**

**OBJECTIVE:**

This course will familiarize the students their responsibilities on ship onboard activities

**UNIT I**

Ballast water management – Trim and stability calculation

**UNIT II**

General / Planned maintenance of structure – Deck & deck equipment – Engine room and engine room machinery–Cargo Gear - Maintenance of hatch cover –Preloading preparation of cargo holds - Maintenance of LSA /FFA

**UNIT III**

Log books – record keeping - General housekeeping

**UNIT IV**

Repairs and dry docking

**UNIT V**

Practical – Ship visit

**3 - SAFETY, SECURITY AND POLLUTION AWARENESS**

**OBJECTIVE:**

In this course the student will learn the familiarization required in the area of safety & security to comply with ship's norms and the regulatory authorities' norms.

**UNIT I**

International conventions and codes (ICC) – ISM – application, Requirements and certification

**UNIT II**

Issue of work permits – personal life saving appliances – operation, manning & launching of survival crafts – stowage, securing of survival crafts – abandon ship drills & musters

**UNIT III**

General safety precautions –Firefighting equipment – constructional aspect for fire prevention – Fire drills & Emergency musters – Bulk carrier fires

**UNIT IV**

ISPS code – ship security plan – Control & compliance measures – Ship security alert system – Piracy and armed robbery -Security procedures - casualties

**UNIT V**

Practical – Ship visit