

**ANNEX B OF CMO NO. 20, SERIES OF 2015
BACHELOR OF SCIENCE IN MARINE TRANSPORTATION
COURSE SPECIFICATIONS**

Course Code	:	Mar Env
Course Descriptive Title	:	Protection of the Marine Environment
Course Credits	:	3 units
Lecture Contact Hours per Week	:	3 hours
Laboratory Contact Hours per Week	:	0 hours
Prerequisite	:	None
Reference/s	:	<ol style="list-style-type: none"> 1. Table A-II/1 of the 1978 STCW Code as amended Function: Controlling the operation of the ship and care for persons on board at the operational level 2. Annex A of CMO No. 20, Series of 2015 (Curriculum Mapping for BSMT) 3. IMO Model course 1.38 & 7.03

COMPETENCE	KNOWLEDGE, UNDERSTANDING AND PROFICIENCY	TOPICS	APPROX HOURS
Ensure compliance with pollution-prevention requirements	Knowledge of the precautions to be taken to prevent pollution of the marine environment	MARPOL '73/ '78	14
		Conventions and Legislations adopted by various countries	4
	Anti-pollution procedures and all associated equipment	Control of discharge of oil	8
		Oil Record Book (Part I – Machinery Space Operations) and Part II –Cargo/Ballast operations)	
		Shipboard Oil Pollution Emergency Plan (SOPEP) including Shipboard Marine Pollution Emergency Plans (SMPEP) for Oil and/or Noxious Liquid Substances and Vessel Response Plan (VRP)	
		Operating procedures of anti-pollution equipment, Sewage plant, incinerator, comminutor, ballast water treatment Plant	
	Volatile Organic Compound (VOC) Management Plan, Garbage Management System, Anti-fouling systems, Ballast Water Management and their discharge criteria		
Importance of proactive measures to protect the marine environment	Proactive measures to protect the marine environment (Including IMO Model course 1.38)	12	
		TOTAL	38