Part C Course Syllabus

The course syllabus has been written in learning outcomes format in which the outcome describes what the trainee must do to demonstrate that the specified knowledge or skill has been acquired and the proper attitude has been developed. All the outcomes are understood to be prefixed by the words, "At the end of the session, the trainees should be be able to ..."

Topics / Learning Outcomes	Reference/ Bibliography	Teaching Aid
Course Introduction .1 explain the requirements under Regulation II/2, Section A-II/2 of the STCW Convention and Code.	R1	A1
.2 explain the training outcomes and course requirements.		
Competence: Control trim, stability and stress1. The fundamental principles of ship construction, theories, factors, and measures necessary to preserve trim and stability	R1, R8, R11, R18, B1, B2, B3, B6	A1, A2
.1 explain the fundamental principles of ship construction and the theories and factors affecting trim and stability and measures necessary to preserve trim and stability.		
.2 explain the appropriate actions to maintain trim and stability within safe limits at all times.		
2. The effect on trim and stability of a ship	R1, R8, R9,	A1, A2,
.1 explain the effect on trim and stability of a ship in the event of damage to and consequent flooding of a compartment and appropriate countermeasures to be taken through given scenarios.	R11, B1, B2, B3, B6	
.2 explain the implementation of the appropriate countermeasures to address trim and stability issues resulting from compartment flooding in order to restore		

۲	Copics / Learning Outcomes	Reference/ Bibliography	Teaching Aid
	and maintain the ship's stability within acceptable limits.		
	perform the damage stability criteria and calculations on the assessment of ship's response to damage and flooding.		A6.1
3. IMO r stabilit	ecommendations concerning ship	R1, R8, R9, R11, B1, B2,	
lí ir n	explain the stability criteria set forth by the MO (Code on Intact Stability) to incorporate these principles into decision- naking processes for safe and efficient hip's operations.	B3, B6	
	ce: Monitor and control compliance with le to ensure safety of life at sea, security and nt		
	tional agreements and conventions	R1, R3, R4, R7, R8, R9,	A1, A4
	ertificates and other documents quired to be carried onboard ships	R10, R11, R13, R15, ,	
.1	explain the certificates and other documents required to be carried on board ships by international conventions, including the process of obtaining it and their period of validity	B4	
.2	explain the procedures for monitoring operations and maintenance to comply with legislative requirements.		
.3	monitor the validity of certificates for timely application before renewal/extension in a given scenario.		A6.2
.4	analyze the potential non-compliance with the IMO conventions and legislative requirements in a given scenario.		

Topics / Learning Outcomes	Reference/ Bibliography	Teaching Aid
 4.2 Responsibilities under the relevant requirements of the following international convention and instruments .1 explain the responsibilities in monitoring the compliance to the following international agreements, conventions and instruments: International Convention on Load Lines, 1966, as amended; International Convention for the Safety of Life at Sea, 1974, as amended; International Convention for the Prevention of Pollution from Ships, as amended; International Health Regulations; and International instruments affecting the safety of the ship, passengers, crew and cargo 2 monitor the responsibilities under the following international Convention for the Safety of Life at Sea, 1974, as amended; International meant instruments affecting the safety of the ship, passengers, crew and cargo 	R1, R3, R4, R7, R8, R9, R10, R11, R13, R15, R18, B4	A1, A2, A3, A4

Topics / Learning Outcomes	Reference/ Bibliography	Teaching Aid
4.3 Methods and aids to prevent pollution of the maritime environment by ships	R1, R4, R7, R8, R9, R18	A1, A2, A3, A4
.1 explain the methods and aids used to prevent pollution of the marine environment by ships in accordance with the established procedures.		
.2 evaluate the methods and aids used to prevent pollution of the marine environment by ships in accordance with the established procedures in a given scenario.		A6.4
4.4 National legislation for implementing international agreements and conventions	R1, R3, R4, R7, R8, R9,	A1, A2, A3
.1 explain the similarities and differences of the salient provisions of relevant legislations in the national level such as but not limited to the following countries relating to the observance of international agreements and conventions:	R10, R11, R13, R15, R17, R18, B4	
 a. Philippines b. U.S.A. c. China d. Japan e. Australia f. EU g. others 		
Competence: Develop emergency and damage conti emergency situations	rol plans and ha	ndle
5. Preparation of contingency plans for response to emergencies	R1, R5, R7, R8, R9, R10, P15, P17	A1, A2, A3, A4
.1 explain the emergency plans based on the specific needs and characteristics of the vessel, its cargo, and its operational environment, considering risk aspects in accordance with established contingency plans.	R15, R17	

	-	Topics / Learning Outcomes	Reference/ Bibliography	Teaching Aid
	.2	analyze the appropriate action of the ship's crew in handling an emergency situation in accordance with the established procedure in a given scenario.		A6.5
6. S	hip d	construction and damage control	R1, R4, R7,	A1, A2, A3,
	.1	explain the applicability of the established emergency and damage control plans in relation to ship's construction.	R8, R9, R10, R18, B1, B2, B3, B6	A4
	.2	analyze the appropriate emergency and damage control plans based on the results of the evaluation taking into consideration the best management practices in a given scenario.		A6.6
		ods and aids for fire prevention, ction and extinction	R1, R8, R18	A1, A3
	.1	explain the effectiveness of the methods for fire prevention, detection, and extinction in accordance with emergency procedures on board		
	.2	evaluate the effectiveness of the methods for fire prevention, detection, and extinction and its corresponding aids in accordance with emergency procedures on board		A6.7
		ctions and use of life-saving liances	R1, R8, R18	A1, A3
	.1	explain the effectiveness of the functions and proper use of life-saving appliances on board a ship in accordance with emergency procedures on board		
	.2	evaluate the effectiveness of the functions and proper use of life-saving appliances on board a ship in accordance with emergency procedures on board		A6.8

	Торі	cs / Learning Outcomes	Reference/ Bibliography	Teaching Aid
Competence: Maintain safety and security of the shi the operational condition of life-saving, fire-fighting a				•
9.	Life- (Inte	saving appliance regulations rnational Convention for the Safety of at Sea) explain the procedures for monitoring of Life-saving Appliances (LSAs) in accordance with Chapter III of SOLAS, 1974, as amended.	R1, R8, R13	A1, A2, A3
10.	•	anization of fire drills and abandon drills	R1, R8, R13, R15, B5	A1, A2, A3
	.1	explain the factors to be considered in planning and organizing fire and abandon ship drills in accordance with established emergency procedures.		
	.2	plan the fire and abandon ship drills in accordance with established emergency procedures in a given scenario.		A6.9
11.		ntenance of operational conditions of saving, fire-fighting and other safety ems	R1, R8, R13	A1, A2, A3
	.1	explain the supervision of the planned testing and maintenance of life-saving appliances, fire detection, alarms, fire- fighting, and other safety system in accordance with the Planned Maintenance Systems (PMS).		
12		tion to be taken to protect and equard of all persons on board	R1, R8, R15, R16, R17,	A1, A2, A3
	.1	explain the role of the management level officer in implementing measures for the protection, security and safety of all persons on board in accordance with contingency plan manual and ISPS Code.	R18, B5	

	Topics / Learning Outcomes	Reference/ Bibliography	Teaching Aid
.2	analyze the appropriate measures to be taken to protect and safeguard all personnel on board in emergencies in accordance with the contingency plan manual in a given scenario.		A6.10
	explain the role of the management level officer in implementing measures to limit damage and salve the ship following a fire, explosion, collision or grounding.	R1, R4, R7, R8, R9, R10, R18, B1, B2, B3, B6	A1, A2, A3
.2	analyze the appropriate measures to be taken to limit damage and salve the ship following a fire, explosion, collision or grounding in accordance with the established procedures.		A6.11
Compete	nce: Use of Leadership and Managerial Ski		
tra	ipboard personnel management and ining explain the application of personnel management principles on board.	R1, R8, R10, R15, R18, B4, B5, B7	A1, A2, A3
.2	explain the assessment of the current competence, capabilities and operational requirements of the officers and crew.		
.3	create appropriate learning, development and operational training requirements and activities in accordance with generally accepted principles.		A6.12
ree	ernational maritime conventions and commendations, and national gislation	R1, R7, R8, R13, R15, R18	A1, A2, A3
.1	explain the effectiveness of the demonstrated shipboard operations based on the following related international maritime conventions and recommendations, and national legislation:		

Topics / Learning Outcomes	Reference/ Bibliography	Teaching Aid
 SOLAS (International Convention for the Safety of Life at Sea); MARPOL (International Convention for the Prevention of Pollution from Ships); STCW (International Convention on Standards of Training, Certification, and Watchkeeping for Seafarers); ISM (International Safety Management) Code; and Maritime Labour Convention 2006 		
16. Task and workload management	R1, R5, R7,	A1, A2, A3,
.1 explain the application of task and workload management in accordance with safe working practices, including:	R8, R9, R10, R15, R16, R18, B4, B5	A4
 planning and coordination personnel assignment time and resource constraints prioritization 		
.2 apply task and workload management in accordance with safe working practices through a given scenario, including:		A6.13
 planning and coordination personnel assignment time and resource constraints prioritization 		
.3 monitor the effectiveness of task and workload management and adjust as necessary.		
 17. Effective resource management 1 explain the allocation of duties and information required by the crew or subordinate for the expected standards of work and behavior in a manner appropriate to the individuals concerned. 	R1, R5, R7, R8, R9, R10, R15, R16, R18, B4, B5	A1, A2, A3, A4

Topics / Learning Outcomes	Reference/ Bibliography	Teaching Aid
.2 explain the effective resource management, taking into consideration:		
 allocation, assignment and prioritization of resources 		
 clear and effective communication on board and ashore decisions reflect consideration of team experiences and are most effective for the situation assertiveness and leadership, including motivation obtaining and maintaining situation awareness 		
.3 apply the effective resource management in accordance with the established safety procedures in a given scenario.		A6.14
18. Decision-making techniques	R1, R5, R7,	A1, A2, A3,
.1 explain the most effective decision- making techniques, taking into consideration:	R8, R9, R10, R15, R16, R18, B4, B5	A4
 situation and risk assessment identify and generate options select course of action evaluation of outcome effectiveness 		
.2 apply the most effective decision-making techniques in accordance with the established safety procedures in a given scenario.		A6.15
19. Development, implementation, and oversight of standard operating procedures	R1, R3, R5, R7, R8, R10, R13, R14,	A1, A2, A3, A4
.1 explain the procedure in the development, implementation and oversight of vessel's safety management system (SMS)/Standards Operating Procedures	R15, R16, R18, B4, B5, B7	

Тој	pics / Learning Outcomes	Reference/ Bibliography	Teaching Aid
imp ope star	plain the policies in developing, plementing, and overseeing standard erating procedures (e.g. master nding order, night order book, nkering, cargo operations, etc.).		
star acc and orde	velop, implement and oversee the ndard operating procedures in cordance with operational requirements d applicable rules (e.g. master standing er, night order book, bunkering, cargo erations, etc.) in a given scenario.		A6.16
involvi .1 expla follow • In ec • M Ca • M Ac	ational Medical Guide for Ships ing Dangerous Goods ain the contents and use of the wing publications: ternational Medical Guide for Ships or quivalent national publications ledical section of the International ode of Signals ledical First Aid Guide for Use in ccidents Involving Dangerous Goods blain the actions to be taken and cedures as per the above-mentioned dical publications.	R1, R2, R5, R6, R8, R12, R13, R14, R15, R16, R17, R18, B7	A1, A2, A3