

Part D

Instructor's Guide

Instructions: The Instructor's Guide (I.G.) also known as lesson plan is developed by the instructor which serves as a road map of what the trainees need to learn and how it will be done effectively. The format below shall be used to ensure uniformity. However, the MTI is required to specify teaching and learning activities, and develop appropriate Instructional Materials suitable for the learning outcomes.

Course: Management Level Course for Marine Deck Officers (Function 2)			Competence: Plan and ensure safe loading, stowage, securing, care during the voyage and unloading of cargoes		
			Knowledge, Understanding and Proficiency: Knowledge of and ability to apply relevant international regulations, codes and standards concerning the safe handling, stowage, securing and transport of cargoes		
			Topics: Course Introduction 1. International regulations, codes, and standards concerning the safe handling, stowage, securing and transport of cargoes		
No. of Trainees: Twenty-Four (24) Trainees			Learning Outcome/s: At the end of the session, the trainees should be able to: Refer to Part C Course Syllabus for the Intended Learning Outcomes		
Class Layout: Lay-out suitable for theoretical part			Formative Assessment: Written Test		
Time	Phase	Content	Instructor-led Activity	Trainee's Learning Activity	Instructional Materials Used
30 minutes	Introduction	Course Introduction <ul style="list-style-type: none"> Requirements under Regulation II/2, Section A-II/2 Function 2 of the STCW Convention and Code Training outcomes and course requirements Intended Learning Outcomes (ILOs) 	<ul style="list-style-type: none"> Class orientation/ briefing Lecture/Discussion or other teaching methods suitable for theoretical aspect Presentation of the ILOs or other activities to motivate the trainees 	Listening, note taking, inquiring, answering questions, interactive discussion.	Visual Presentation

Time	Phase	Content	Instructor-led Activity	Trainee's Learning Activity	Instructional Materials Used
		<ul style="list-style-type: none"> Introduction to leadership skill that a management level officer should possess 			
1 hour and 15 minutes	Core Element	1. International regulations, codes, and standards concerning the safe handling, stowage, securing and transport of cargoes	The MTI is required to specify suitable activities for the delivery of the topic.	The MTI is required to specify suitable learning activities.	<ul style="list-style-type: none"> Visual Presentation Video related to IMO/SOLAS, IMDG & IMSBC CODES
15 minutes	Conclusion	International regulations, codes, and standards concerning the safe handling, stowage, securing and transport of cargoes	<ul style="list-style-type: none"> Make generalization and abstraction of the lesson Assess the learning which may come from any of the following: <ul style="list-style-type: none"> - Formative Test - Oral Examination - Assignment Other activities to check the retention of learning 	<ul style="list-style-type: none"> Participating, sharing insights and learning gained Answering/asking questions 	Visual Presentation

Course: Management Level Course for Marine Deck Officers (Function 2)			Competence: Plan and ensure safe loading, stowage, securing, care during the voyage and unloading of cargoes		
			Knowledge, Understanding and Proficiency: Knowledge of the effect on trim and stability of cargoes and cargo operations		
			Topic: 2. The effect on trim and stability of cargoes and cargo operations.		
No. of Trainees: Twenty-Four (24) Trainees			Learning Outcome/s: At the end of the session, the trainees should be able to: Refer to Part C Course Syllabus for the Intended Learning Outcomes		
Class Layout: Lay-out suitable for theoretical part			Formative Assessment: Written Test		
Time	Phase	Content	Instructor-led Activity	Trainee's Learning Activity	Instructional Materials Used
30 minutes	Introduction	<ul style="list-style-type: none"> International regulations, codes, and standards concerning the safe handling, stowage, securing and transport of cargoes Intended Learning Outcomes (ILOs) 	<ul style="list-style-type: none"> Review of previous topics Presentation of the ILOs or other activities to motivate the trainees 	Listening, note taking, inquiring, answering questions, interactive discussion.	Visual Presentation
1 hour and 45 minutes	Core Element	2. The effect on trim and stability of cargoes and cargo operations	The MTI is required to specify suitable activities for the delivery of the topic.	The MTI is required to specify suitable learning activities.	<ul style="list-style-type: none"> Visual Presentation Video related to Trim and Stability
15 minutes	Conclusion	The effect on trim and stability of cargoes and cargo operations	<ul style="list-style-type: none"> Make generalization and abstraction of the lesson Assess the learning which may come from any of the following: <ul style="list-style-type: none"> - Formative Test - Oral Examination - Assignment Other activities to check the retention of learning 	<ul style="list-style-type: none"> Participating, sharing insights and learning gained Answering/asking questions 	Visual Presentation

Course: Management Level Course for Marine Deck Officers (Function 2)			Competence: Plan and ensure safe loading, stowage, securing, care during the voyage and unloading of cargoes		
			Knowledge, Understanding and Proficiency: Stowage and securing of cargoes onboard ships, including cargo-handling gear and securing and lashing equipment		
			Topic: 3. Stowage and securing of cargoes on board ships		
No. of Trainees: Twenty-Four (24) Trainees			Learning Outcome/s: At the end of the session, the trainees should be able to: Refer to Part C Course Syllabus for the Intended Learning Outcomes		
Class Layout: Lay-out suitable for theoretical part			Formative Assessment: Written Test		
Time	Phase	Content	Instructor-led Activity	Trainee's Learning Activity	Instructional Materials Used
15 minutes	Introduction	<ul style="list-style-type: none"> The effect on trim and stability of cargoes and cargo operations Intended learning outcome 	<ul style="list-style-type: none"> Review of previous lessons Presentation of the ILOs or other activities to motivate the trainees 	Listening, note taking, inquiring, answering questions, interactive discussion	Visual Presentation
1 hour and 30 minutes	Core Element	3. Stowage and securing of cargoes on board ships	The MTI is required to specify suitable activities for the delivery of the topic.	The MTI is required to specify suitable learning activities.	<ul style="list-style-type: none"> Visual Presentation Video related to CSS Code, CSC Code
15 minutes	Conclusion	Stowage and securing of cargoes on-board ship	<ul style="list-style-type: none"> Make generalization and abstraction of the lesson Assess the learning which may come from any of the following: <ul style="list-style-type: none"> - Formative Test - Oral Examination - Assignment Other activities to check the retention of learning 	<ul style="list-style-type: none"> Participating, sharing insights and learning gained Answering/asking questions 	Visual Presentation

Course: Management Level Course for Marine Deck Officers (Function 2)			Competence: Plan and ensure safe loading, stowage, securing, care during the voyage and unloading of cargoes		
			Knowledge, Understanding and Proficiency: Loading and unloading operations, with special regard to the transport of cargoes identified in the Code of Safe Practice for Cargo Stowage and Securing		
			Topic: 4. Loading and unloading operations		
No. of Trainees: Twenty-Four (24) Trainees			Learning Outcome/s: At the end of the session, the trainees should be able to: Refer to Part C Course Syllabus for the Intended Learning Outcomes		
Class Layout: Lay-out suitable for theoretical part			Formative Assessment: Written Test		
Time	Phase	Content	Instructor-led Activity	Trainee's Learning Activity	Instructional Materials Used
15 minutes	Introduction	<ul style="list-style-type: none"> Stowage and securing of cargoes on board ships Intended learning outcome 	<ul style="list-style-type: none"> Review of previous lessons Presentation of the ILOs or other activities to motivate the trainees 	Listening, note taking, inquiring, answering questions, interactive discussion	Visual Presentation
1 hour and 30 minutes	Core Element	4. Loading and unloading operations	The MTI is required to specify suitable activities for the delivery of the topic.	The MTI is required to specify suitable learning activities.	<ul style="list-style-type: none"> Visual Presentation Video related to CSS Code
15 minutes	Conclusion	Loading and unloading operations	<ul style="list-style-type: none"> Make generalization and abstraction of the lesson Assess the learning which may come from any of the following: <ul style="list-style-type: none"> Formative Test Oral Examination Assignment Other activities to check the retention of learning 	<ul style="list-style-type: none"> Participating, sharing insights and learning gained Answering/asking questions 	Visual Presentation

Course: Management Level Course for Marine Deck Officers (Function 2)			Competence: Plan and ensure safe loading, stowage, securing, care during the voyage and unloading of cargoes		
			Knowledge, Understanding and Proficiency: General knowledge of tankers and tanker operations		
			Topic: 5. General knowledge of tankers and tanker operations		
No. of Trainees: Twenty-Four (24) Trainees			Learning Outcome/s: At the end of the session, the trainees should be able to: Refer to Part C Course Syllabus for the Intended Learning Outcomes		
Class Layout: Lay-out suitable for theoretical part			Formative Assessment: Written Test		
Time	Phase	Content	Instructor-led Activity	Trainee's Learning Activity	Instructional Materials Used
15 minutes	Introduction	<ul style="list-style-type: none"> Loading and unloading operations Intended learning outcomes 	<ul style="list-style-type: none"> Review of previous lessons Presentation of the ILOs or other activities to motivate the trainees 	Listening, note taking, inquiring, answering questions, interactive discussion	Visual Presentation
1 hour and 30 minutes	Core Element	5. General knowledge of tankers and tanker operations	The MTI is required to specify suitable activities for the delivery of the topic.	The MTI is required to specify suitable learning activities.	<ul style="list-style-type: none"> Visual Presentation Video related to Types and General Arrangements of Tankers
15 minutes	Conclusion	General knowledge of tankers and tanker operations	<ul style="list-style-type: none"> Make generalization and abstraction of the lesson Assess the learning which may come from any of the following: <ul style="list-style-type: none"> Formative Test Oral Examination Assignment Other activities to check the retention of learning 	<ul style="list-style-type: none"> Participating, sharing insights and learning gained Answering/asking questions 	Visual Presentation

Course: Management Level Course for Marine Deck Officers (Function 2)			Competence: Plan and ensure safe loading, stowage, securing, care during the voyage and unloading of cargoes		
			Knowledge, Understanding and Proficiency: Knowledge of the operational and design limitations of bulk carriers		
			Topic: 6. Operational and design limitations of Bulk Carriers		
No. of Trainees: Twenty-Four (24) Trainees			Learning Outcome/s: At the end of the session, the trainees should be able to: Refer to Part C Course Syllabus for the Intended Learning Outcomes		
Class Layout: Lay-out suitable for theoretical part			Formative Assessment: Written Test		
Time	Phase	Content	Instructor-led Activity	Trainee's Learning Activity	Instructional Materials Used
15 minutes	Introduction	<ul style="list-style-type: none"> General knowledge of tankers and tanker operations Intended learning outcome 	<ul style="list-style-type: none"> Review of previous lessons Presentation of the ILOs or other activities to motivate the trainees 	Listening, note taking, inquiring, answering questions, interactive discussion	Visual Presentation
1 hour and 30 minutes	Core Element	6. Operational and design limitations of bulk carriers	The MTI is required to specify suitable activities for the delivery of the topic.	The MTI is required to specify suitable learning activities.	<ul style="list-style-type: none"> Visual Presentation Video related to ISMBC Code, SOLAS Chapter XII
15 minutes	Conclusion	Operational and design limitations of bulk carriers	<ul style="list-style-type: none"> Make generalization and abstraction of the lesson Assess the learning which may come from any of the following: <ul style="list-style-type: none"> Formative Test Oral Examination Assignment Other activities to check the retention of learning 	<ul style="list-style-type: none"> Participating, sharing insights and learning gained Answering/asking questions 	Visual Presentation

Course: Management Level Course for Marine Deck Officers (Function 2)			Competence: Plan and ensure safe loading, stowage, securing, care during the voyage and unloading of cargoes		
			Knowledge, Understanding and Proficiency: <ul style="list-style-type: none"> • Ability to use all available shipboard data related to loading, care and unloading of bulk cargoes • Use of stability and trim diagrams and stress-calculating equipment, including automatic data-based (ADB) equipment, and knowledge of loading cargoes and ballasting in order to keep hull stress within acceptable limits 		
			Topic: 7. Shipboard data related to loading/unloading, and care of cargoes, and ballasting with the use of stability and trim diagrams and stress-calculating equipment		
No. of Trainees: Twenty-Four (24) Trainees			Learning Outcome/s: At the end of the session, the trainees should be able to: Refer to Part C Course Syllabus for the Intended Learning Outcomes		
Class Layout: Lay-out suitable for theoretical part			Formative Assessment: Written and Practical Test		
Time	Phase	Content	Instructor-led Activity	Trainee's Learning Activity	Instructional Materials Used
15 minutes	Introduction	<ul style="list-style-type: none"> • Operational and design limitations of bulk carriers • Intended learning outcomes 	<ul style="list-style-type: none"> • Review of previous lessons • Presentation of the ILOs or other activities to motivate the trainees 	Listening, note taking, inquiring, answering questions, interactive discussion	Visual Presentation
2 hours	Core Element	7. Shipboard data related to loading/unloading, and care of cargoes, and ballasting with the use of stability and trim diagrams and stress-calculating equipment	The MTI is required to specify suitable activities for the delivery of the topic.	The MTI is required to specify suitable learning activities.	<ul style="list-style-type: none"> • Visual Presentation • Video related to SOLAS/ISMBC Code

Time	Phase	Content	Instructor-led Activity	Trainee's Learning Activity	Instructional Materials Used
4 hours	Core Element	<p>Practical Exercise 1 Create plans for safe loading/unloading and ballasting/de-ballasting operations of the following types of vessel, but not limited to: A4.1.1. Bulk Carrier; A4.1.2. Tanker Vessel; and A4.1.3. Container Vessel.</p>	<p>Practical Exercise 1 The MTI is required to specify suitable activities for the conduct of the practical exercise in creating plans for the safe loading/unloading and ballasting/de-ballasting operations using stability and trim diagrams, and stress-calculating equipment of the following types of vessels, but not limited to bulk, tanker and container in given scenarios.</p>	<p>Practical Exercise 1 Participating in the practical exercise on creating plans for the safe loading/unloading and ballasting/de-ballasting operations using stability and trim diagrams, and stress-calculating equipment of the following types of vessels, but not limited to bulk, tanker and container in given scenarios.</p>	<ul style="list-style-type: none"> • Exercise Sheet A4.1.1-A4.1.3 • Computer sets with software capable of simulating cargo and stress calculations, and provide stability and trim diagrams of the following types of vessel, but not limited to: - bulk carrier; - tanker vessel; and - container vessel.
15 minutes	Conclusion	Shipboard data related to loading/unloading, and care of cargoes, and ballasting with the use of stability and trim diagrams and stress-calculating equipment	<ul style="list-style-type: none"> • Make generalization and abstraction of the lesson • Assess the learning which may come from any of the following: <ul style="list-style-type: none"> - Formative Test - Oral Examination - Assignment • Other activities to check the retention of learning 	<ul style="list-style-type: none"> • Participating, sharing insights and learning gained • Answering/asking questions 	Visual Presentation

Course: Management Level Course for Marine Deck Officers (Function 2)			Competence: Plan and ensure safe loading, stowage, securing, care during the voyage and unloading of cargoes		
			Knowledge, Understanding and Proficiency: Ability to establish procedure for safe cargo handling in accordance with the provisions of the relevant instruments such as IMDG Code, IMSBC Code, MARPOL 73/78 Annexes III and V and other relevant information		
			Topic: 8. Procedures on safe cargo handling		
No. of Trainees: Twenty-Four (24) Trainees			Learning Outcome/s: At the end of the session, the trainees should be able to: Refer to Part C Course Syllabus for the Intended Learning Outcomes		
Class Layout: Lay-out suitable for theoretical part			Formative Assessment: Written Test		
Time	Phase	Content	Instructor-led Activity	Trainee's Learning Activity	Instructional Materials Used
15 minutes	Introduction	<ul style="list-style-type: none"> Shipboard data related to loading, care and unloading of bulk cargoes Intended learning outcome 	<ul style="list-style-type: none"> Review of previous lessons Presentation of the ILOs or other activities to motivate the trainees 	Listening, note taking, inquiring, answering questions, interactive discussion	Visual Presentation
1 hour and 30 minutes	Core Element	8. Safe cargo handling	The MTI is required to specify suitable activities for the delivery of the topic.	The MTI is required to specify suitable learning activities.	<ul style="list-style-type: none"> Visual Presentation Video related to IMDG Code IMSBC Code, MARPOL 73/78 Annexes III and V
15 minutes	Conclusion	Safe cargo handling	<ul style="list-style-type: none"> Make generalization and abstraction of the lesson Assess the learning which may come from any of the following: <ul style="list-style-type: none"> Formative Test Oral Examination Assignment Other activities to check the retention of learning 	<ul style="list-style-type: none"> Participating, sharing insights and learning gained Answering/asking questions 	Visual Presentation

Course: Management Level Course for Marine Deck Officers (Function 2)			Competence: Plan and ensure safe loading, stowage, securing, care during the voyage and unloading of cargoes		
			Knowledge, Understanding and Proficiency: Ability to explain the basic principles for establishing effective communications and improving working relationship between ship and terminal personnel		
			Topic: 9. Effective communications and improving working relationship between ship and terminal personnel		
No. of Trainees: Twenty-Four (24) Trainees			Learning Outcome/s: At the end of the session, the trainees should be able to: Refer to Part C Course Syllabus for the Intended Learning Outcomes		
Class Layout: Lay-out suitable for theoretical part			Formative Assessment: Written Test		
Time	Phase	Content	Instructor-led Activity	Trainee's Learning Activity	Instructional Materials Used
15 minutes	Introduction	<ul style="list-style-type: none"> Safe cargo handling Intended learning outcome 	<ul style="list-style-type: none"> Review of previous lessons Presentation of the ILOs or other activities to motivate the trainees 	Listening, note taking, inquiring, answering questions, interactive discussion	Visual Presentation
30 minutes	Core Element	9. Effective communications and improving working relationship	The MTI is required to specify suitable activities for the delivery of the topic.	The MTI is required to specify suitable learning activities.	<ul style="list-style-type: none"> Visual Presentation Video related to Trimming final cargo between terminal and ship

Time	Phase	Content	Instructor-led Activity	Trainee's Learning Activity	Instructional Materials Used
15 minutes	Conclusion	Effective communications and improving working relationship	<ul style="list-style-type: none"> • Make generalization and abstraction of the lesson • Assess the learning which may come from any of the following: <ul style="list-style-type: none"> - Formative Test - Oral Examination - Assignment • Other activities to check the retention of learning 	<ul style="list-style-type: none"> • Participating, sharing insights and learning gained • Answering/asking questions 	Visual Presentation

Course: Management Level Course for Marine Deck Officers (Function 2)			Competence: Assess reported defects and damage to cargo spaces, hatch covers and ballast tanks and take appropriate action		
			Knowledge, Understanding and Proficiency: Knowledge of the limitations on strength of the vital constructional parts of a standard bulk carrier and ability to interpret given figures for bending moments and shear forces		
			Topic: 10. Limitation on strength of the vital constructional parts of a standard bulk carrier		
No. of Trainees: Twenty-Four (24) Trainees			Learning Outcome/s: At the end of the session, the trainees should be able to: Refer to Part C Course Syllabus for the Intended Learning Outcomes		
Class Layout: Lay-out suitable for theoretical part			Formative Assessment: Written Test		
Time	Phase	Content	Instructor-led Activity	Trainee's Learning Activity	Instructional Materials Used
15 minutes	Introduction	<ul style="list-style-type: none"> Effective communications and improving working relationship Intended learning outcome 	<ul style="list-style-type: none"> Review of previous lessons Presentation of the ILOs or other activities to motivate the trainees 	Listening, note taking, inquiring, answering questions, interactive discussion	Visual Presentation
1 hour	Core Element	10. Limitation on strength of the vital constructional parts of a standard bulk carrier	The MTI is required to specify suitable activities for the delivery of the topic.	The MTI is required to specify suitable learning activities.	<ul style="list-style-type: none"> Visual Presentation Video related to Shear force and bending moment uniform load
15 minutes	Conclusion	Limitation on strength of the vital constructional parts of a standard bulk carrier	<ul style="list-style-type: none"> Make generalization and abstraction of the lesson Assess the learning which may come from any of the following: <ul style="list-style-type: none"> - Formative Test - Oral Examination - Assignment Other activities to check the retention of learning 	<ul style="list-style-type: none"> Participating, sharing insights and learning gained Answering/asking questions 	Visual Presentation

Course: Management Level Course for Marine Deck Officers (Function 2)			Competence: Assess reported defects and damage to cargo spaces, hatch covers and ballast tanks and take appropriate action		
			Knowledge, Understanding and Proficiency: Ability to explain how to avoid the detrimental effects on bulk carrier of corrosion, fatigue and inadequate cargo handling		
			Topic: 11. Detrimental effects on bulk carriers of corrosion, fatigue and inadequate cargo handling		
No. of Trainees: Twenty-Four (24) Trainees			Learning Outcome/s: At the end of the session, the trainees should be able to: Refer to Part C Course Syllabus for the Intended Learning Outcomes		
Class Layout: Lay-out suitable for theoretical part			Formative Assessment: Written and Practical Test		
Time	Phase	Content	Instructor-led Activity	Trainee's Learning Activity	Instructional Materials Used
15 minutes	Introduction	<ul style="list-style-type: none"> Limitation on strength of the vital constructional parts of a standard bulk carrier Intended learning outcome 	<ul style="list-style-type: none"> Review of previous lessons Presentation of the ILOs or other activities to motivate the trainees 	Listening, note taking, inquiring, answering questions, interactive discussion	Visual Presentation
40 minutes	Core Element	11. Detrimental effects on bulk carriers of corrosion, fatigue and inadequate cargo handling	The MTI is required to specify suitable activities for the delivery of the topic.	The MTI is required to specify suitable learning activities.	<ul style="list-style-type: none"> Visual Presentation Video related to Maintenance of hatch covers, cargo holds and ballast tanks

Time	Phase	Content	Instructor-led Activity	Trainee's Learning Activity	Instructional Materials Used
2 hours and 30 minutes	Core Element	<p>Practical Exercise 2 Develop strategies, to include risk assessment, to avoid the detrimental effects of corrosion, fatigue, and inadequate cargo handling on bulk carriers</p>	<p>Practical Exercise 2 The MTI is required to specify suitable activities for the conduct of the practical exercise in developing strategies, to include risk assessment, to prevent the detrimental effects of corrosion, fatigue, and inadequate cargo handling on bulk carriers in accordance with the Planned Maintenance System (PMS).</p>	<p>Practical Exercise 2 Participating in the practical exercise on developing strategies, to include risk assessment, to prevent the detrimental effects of corrosion, fatigue, and inadequate cargo handling on bulk carriers in accordance with the Planned Maintenance System (PMS).</p>	<ul style="list-style-type: none"> • Visual Presentation • Risk Assessment Form • Exercise Sheet A4.2
5 minutes	Conclusion	Detrimental effects on bulk carriers of corrosion, fatigue and inadequate cargo handling	<ul style="list-style-type: none"> • Make generalization and abstraction of the lesson • Assess the learning which may come from any of the following: <ul style="list-style-type: none"> - Formative Test - Oral Examination - Assignment • Other activities to check the retention of learning 	<ul style="list-style-type: none"> • Participating, sharing insights and learning gained • Answering/asking questions 	Visual Presentation

Course: Management Level Course for Marine Deck Officers (Function 2)			Competence: Carriage of dangerous goods		
			Knowledge, Understanding and Proficiency: International regulations, standards, codes and recommendations on the carriage of dangerous cargoes, including the International Maritime Dangerous Goods (IMDG) Code and the International Maritime Solid Bulk Cargoes (IMSBC) Code		
			Topic: 12. International regulations, standards, codes and recommendations on the carriage of dangerous cargoes		
No. of Trainees: Twenty-Four (24) Trainees			Learning Outcome/s: At the end of the session, the trainees should be able to: Refer to Part C Course Syllabus for the Intended Learning Outcomes		
Class Layout: Lay-out suitable for theoretical part			Formative Assessment: Written Test		
Time	Phase	Content	Instructor-led Activity	Trainee's Learning Activity	Instructional Materials Used
15 minutes	Introduction	<ul style="list-style-type: none"> Detrimental effects on bulk carriers of corrosion, fatigue and inadequate cargo handling Intended learning outcome 	<ul style="list-style-type: none"> Review of previous lessons Presentation of the ILOs or other activities to motivate the trainees 	Listening, note taking, inquiring, answering questions, interactive discussion	Visual Presentation
1 hour and 30 minutes	Core Element	12. International regulations, standards, codes and recommendations on the carriage of dangerous cargoes	The MTI is required to specify suitable activities for the delivery of the topic.	The MTI is required to specify suitable learning activities.	<ul style="list-style-type: none"> Visual Presentation Video related to SDS, IMDG & IMSBC codes
15 minutes	Conclusion	International regulations, standards, codes and recommendations on the carriage of dangerous cargoes	<ul style="list-style-type: none"> Make generalization and abstraction of the lesson Assess the learning which may come from any of the following: <ul style="list-style-type: none"> - Formative Test - Oral Examination - Assignment Other activities to check the retention of learning 	<ul style="list-style-type: none"> Participating, sharing insights and learning gained Answering/asking questions 	Visual Presentation

Course: Management Level Course for Marine Deck Officers (Function 2)			Competence: Carriage of dangerous goods		
			Knowledge, Understanding and Proficiency: Carriage of dangerous, hazardous and harmful cargoes; precautions during loading and unloading and care during the voyage		
			Topic: 13. Carriage of dangerous, hazardous and harmful cargoes		
No. of Trainees: Twenty-Four (24) Trainees			Learning Outcome/s: At the end of the session, the trainees should be able to: Refer to Part C Course Syllabus for the Intended Learning Outcomes		
Class Layout: Lay-out suitable for theoretical part			Formative Assessment: Written Test		
Time	Phase	Content	Instructor-led Activity	Trainee's Learning Activity	Instructional Materials Used
15 minutes	Introduction	<ul style="list-style-type: none"> International regulations, standards, codes and recommendations on the carriage of dangerous cargoes Intended learning outcome 	<ul style="list-style-type: none"> Review of previous lessons Presentation of the ILOs or other activities to motivate the trainees 	Listening, note taking, inquiring, answering questions, interactive discussion	Visual Presentation
30 minutes	Core Element	13. Carriage of dangerous, hazardous and harmful cargoes	The MTI is required to specify suitable activities for the delivery of the topic.	The MTI is required to specify suitable learning activities.	<ul style="list-style-type: none"> Visual Presentation Video related to Shipping dangerous goods
15 minutes	Conclusion	Carriage of dangerous, hazardous and harmful cargoes	<ul style="list-style-type: none"> Make generalization and abstraction of the lesson Assess the learning which may come from any of the following: <ul style="list-style-type: none"> Formative Test Oral Examination Assignment Other activities to check the retention of learning 	<ul style="list-style-type: none"> Participating, sharing insights and learning gained Answering/asking questions 	Visual Presentation