STCW1995 版轉換為 2010 版船上訓練紀錄簿應補差項目表:一、二等輪機長

專長 FUNCTION:管理級-輪機工程 MARINE ENGINEERING AT THE MANAGEMENT LEVEL

項次 Ref No	訓練 Training				適任性認 Compete	
2	適任 Competence: 計劃及安排操作			評估標準 Criteria for Evaluation	Demonstra 同部門較自身 甲級船員簽名 Assessor (Signa	ated 高階之 B/日期
2.1	機能及其期機設計特性與機械作動之理論が超(無機長) Theoretical knowledge of design features, and operative		對設計特性與機械作動能適 當之說明與瞭解 Explanation and understanding of design features and operating mechanisms are appropriate	7155C55OT (BIGHT	in the state of	
	科目/職責 Task/Duty	科目已完成 Task Completed 施訓者簽名/日期 Instructor(Signature/Date)		對改進部分之建議 Advice on Areas for Improvement	科目已完成 Task Completed 施訓者簽名/日期 Instructor(Signature/Date)	
.1	熱力學與熱傳學 Thermodynamics and heat transmission				,	
.2	力學與流體力學 Mechanics and hydromechanics					
.3	柴油機推進特性包括速率、輸出與燃油消耗 Diesel engines propulsive characteristics, including speed, output and fuel consumption					
.4	蒸汽渦輪機推進特性包括速率、輸出與燃油 消耗 Steam turbines propulsive characteristics, including speed, output and fuel consumption					

.5	燃氣渦輪機推進特性包括速率、輸出與燃油 消耗 Gas turbines propulsive characteristics, including speed, output and fuel consumption 下列機器及其輔機熱循環、熱效率與熱平衡 Heat cycle, thermal efficiency and heat balance of the following machinery and associated						
.0	auxiliaries: 船用柴油機 Marine diesel engine						
.7	船用蒸汽渦輪機 Marine steam turbine						
.8	船用燃氣渦輪機 Marine gas turbine						
.9	船用鍋爐 Marine steam boiler	之番	<u> </u>	飞 4六	17	英国	
.10	冷凍機與冷凍循環 Refrigerators and refrigeration cycle	(II)		ן ננו בו		-	J
.11	燃油及潤滑油物理與化學性質 Physical and chemical properties of fuels and lubricants	time a	nd	Port Bu	real	u, MO	IC
.12	工程材料學 Technology of materials						
.13	造船學及船舶構造、包括損害管制 Naval architecture and ship construction, including damage control						

專長 FUNCTION:管理級-電機、電子及控制工程 ELECTRICAL, ELECTRONIC AND CONTROL ENGINEERING AT THE MANAGEMENT LEVEL

項次 Ref No	訓練 Training			適任性記	· ·
5	適任 Competence 管理操作電機及電子控 Manage operation of elect electronic control equi	評估標準 Criteria for Evaluation	Competer Demonstra 同部門較自身 甲級船員簽名 Assesso (Signature/	ated 高階之 名/日期 or	
5.1	管理操作電機及電子控制設備之理論知 Theoretical knowledge of manage operation electrical and electronic control equipmen	設備及系統操作係依據操作 手册。性能標準係依據技術說 明書 Operation of equipment and system is in accordance with operating manuals. Performance levels are in accordance with technical specifications.			
	科目/職責 All Task Completed Task/Duty 施訓者簽名/日期 Instructor(Signature/Date)		對改進部分之建議 Advice on Areas for Improvement	科目已完 Task Comp 施訓者簽名 Instructor(Signa	oleted /日期
.1	船舶電工學、電子學、大功率電子及自動控制工程與安全設施 Marine electro technology, electronics, power electronics, automatic control engineering and safety devices				

[2]	下列自動控制設備與安全設施之設計特性與 系統結構 Design features and system configurations of automatic control equipment and safety devices for the following: 主機 Main engine 發電機與配電系統 Generator and distribution system 蒸汽鍋爐 Steam boiler	
.3	電動機操作控制系統之設計特性與系統結構 Design features and system configurations of operational control equipment for electrical motors	
.4	高電壓裝置之設計特性 Design features of high-voltage installations	
.5	Maritime and Port Bureau, Mo 変 興 氣 壓 控 制 設 備 之 特 性 Features of hydraulic and pneumatic control equipment	

專長 FUNCTION:管理級-保養及維修 MAINTENANCE AND REPAIR AT THE MANAGEMENT LEVEL

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項次 Ref No	訓練 Training		適任性證明 Competence					
	適任 Competence:	評估標準	Demonstrated					
7	管理安全有效保養及維修程序	College Con Ford Land	同部門較自身高階之					
_		Criteria for Evaluation	甲級船員簽名/日期					
	Manage safe and effective maintenance and repair procedures		Assessor (Signature/Date)					
7.1	安全與有效保養及維修程序之理論知識(輪機長) Theoretical knowledge of safe and effective maintenance and repair procedures	保養及維修工作依技術、法定、安全及程序說明書正確 予以規劃執行 Maintenance and repair activities are correctly planned in accordance with technical, legislative, safety and procedural specifications.						
	科目/職責 Task/Duty All Distructor(Signature/Date	對改進部分之建議 Advice on Areas for Improvement	科目已完成 Task Completed 施訓者簽名/日期 Instructor(Signature/Date)					
.1	實用輪機工程 Marine engineering practice	Port Bureau	ı, MOTC					

專長 FUNCTION:管理級-船舶操作管控與照護船上人員 CONTROLLING THE OPERATION OF THE SHIP AND CARE FOR PERSONS ON BOARD AT THE MANAGEMENT LEVEL

項次 Ref No	訓練 Training				適任性部 Compete	•
10	適任 Competence: 俯仰、穩度及應力之控制			評估標準 Criteria for Evaluation	Demonstra 同部門較自身 甲級船員簽名	ated 高階之 名/日期
10.1	\mathcal{E}			穩度及應力狀況始終保持於 安全限度內 Stability and stress conditions are maintained within safe limits at all times	Assessor (Signa	ature/Date)
	科目/職責 Task/Duty	科目已完成 Task Completed 施訓者簽名/日期 Instructor(Signature/Date)		對改進部分之建議 Advice on Areas for Improvement	科目已完 Task Comp 施訓者簽名 Instructor(Signa	oleted 7日期
.1	瞭解船舶構造之基本原理 Understanding of fundamental principles of ship construction	ime a	nd F	Port Bureau	л, МО ⁻	ГС
.2	瞭解影響俯仰及穩度之理論與因素及保持俯仰及穩度之必要措施 Understanding of the theories and factors affecting trim and stability and measures necessary to preserve trim and stability					
.3	船舶某艙區受損連續泛水時對船舶俯仰及穩度影響之知識,及應採取之因應措施 Knowledge of the effect on trim and stability of a ship in the even of damage to and consequent flooding of a compartment and countermeasures to be taken					
.4	國際海事組織有關船舶建議案之知識 Knowledge of IMO recommendations concerning ship stability					

11	適任 Competence 監督及控制對法定要 遵守及確保海上人命安全與保護 Monitor and control compliance with le and measures to ensure safety of life at of the marine environ	n Criteria for Evaluation	適任性證明 Competence Demonstrated 同部門較自身高階之 甲級船員簽名/日期 Assessor(Signature/Date)	
11.1	包含於國際協議及公約內之有關國際海International maritime law embodied in international agreements and conventions	監督操作及維護之程序符合 法定要求。並能迅速完全 確認潛在之不符合項目 Procedures for monitoring operations and maintenance comply with legislative requirement. Potential non-compliance is promptly fully identified		
	科目/職責 Task/Duty			科目已完成 Task Completed 施訓者簽名/日期 Instructor(Signature/Date)
.3	防止船舶污染國際公約有關要求之責任 Responsibilities under the relevant requirements for the Prevention of POLLUTION FROM Ships	THIC GITG		u, 101010
.6	防止船舶污染環境之方法及設備 Methods and aids to prevent pollution of the marine environment by ships			

13	適任 Competence: 研訂應急及損害管制計畫並處置緊急狀況 Develop emergency and damage control plans and handle emergency situations			評估標準 Criteria for Evaluation	適任性證明 Competence Demonstrated 同部門較自身高階之 甲級船員簽名/日期 Assessor (Signature/Date)
13.1	Actions to be taken to protect and safeguard			應急程序條依所制訂之 應急計畫進行 Emergency procedures are in accordance with the established plans for emergency situations	
	科目/職責 Task/Duty	科目已完成 Task Completed 施訓者簽名/日期 Instructor(Signature/Date)		對改進部分之建議 Advice on Areas for Improvement	科目已完成 Task Completed 施訓者簽名/日期 Instructor(Signature/Date)
.1	制定應急計畫以反應緊急狀況 Preparation of contingency plans for response to emergencies	3用岩			ま馬
.2	船舶構造包括損害管制之知識 Knowledge of ship construction, including damage control.	time a	ر ا ا	Port Rureau	MOTO
.3	防火、探火及滅火之方法與設備 Methods and aids for the fire prevention, detection and extinction.	inic a		ort barea	4, WIO I C
.4	救生設備之功能及使用 Functions and use of life-saving appliances				
[14]	適任 Competence: 領導與管理技巧之運用 Use of leadership and managerial skill			評估標準 Criteria for Evaluation	適任性證明 Competence Demonstrated 同部門較自身高階之 甲級船員簽名/日期 Assessor (Signature/Date)

14.2	船上人事管理與訓練(輪機長) Shipboard personnel management and training	訓練之目標與活動係基於對 目前適任性與能力及操作要 求之評估。操作經證明係依 可適用之規則為之。 Training objectives and activities are based on assessment of current competence and capabilities and operational requirement. Operations are demonstrated to be in accordance with applicable rules
.1	船上人事管理與訓練之知識 Knowledge of shipboard personnel management and training	
.2	有關國際海事公約與建議案及國內法規之知識 A knowledge of related international maritime conventions and recommendations, and national legislation.	
14.3	有效之資源管理(輪機長) Effective resource management	依計畫操作而資源係依完成 必要任務之所需作正確優先 順序分配 Operations are planned and resources are allocated as needed in correct priority to perform necessary
.1	應用有效資源管理之知識與能力 V C I I I I I I C C Knowledge and ability to apply effective resource management.	illa l'olt buleau, Molc
.2	資源分配、分派與優先順序之知識與能力 Knowledge and ability to allocation, assignment, and prioritization of resources	
14.4	船岸通信(輪機長) Communication on board and ashore	通信之發送與接收清晰明確 Communication is clearly and unambiguously given and received
.1	有效之船岸通信 Effective communication on board and ashore	
14.5	決斷與領導(輪機長) Assertiveness and leadership	證實具有效之領導能力 Effective leadership behaviors are demonstrated

.1	決斷與領導包括激勵 Assertiveness and leadership, including motivation					
.2	所作決策反映尊重團隊之經驗 Decisions reflect consideration of team experiences					
.3	具有並保持情境意識 Obtaining and maintaining situation awareness					
14.6	運用決策技能之知識與能力(輪機長) Knowledge and ability to apply decision-n	naking techniqu	ies	所做決策對當時處境非常有效 Decisions are most effective for the situation		
	科目/職責 Task/Duty	科目已完 Task Comp 施訓者簽名 Instructor(Signa	oleted /日期	對改進部分之建議 Advice on Areas for Improvement	科目已完 Task Comp 施訓者簽名 Instructor(Signa	oleted 7/日期
.1	處境與風險之評估 Situation and risk assessment	36	77	7 05 13	T E	
.2	確定與考量所應作之選擇 Identify and generate options	5 H				
.3	選擇行動之方針 Selecting course of action			- /J/ C / C		
.4	評估結果之有效性 Evaluation of outcome effectiveness	time a	nd	Port Bureau	u, MO	TC
14.7	標準操作程序之制定(輪機長) Development of standard operating proceed	dures		操作經證明係有效並符合可 適用之規則 Operations are demonstrated to be effective and in accordance with applicable rules		
	科目/職責 Task/Duty 標準操作程序之制定、履行與監督	科目已完 Task Comp 施訓者簽名 Instructor(Signa	leted /日期	對改進部分之建議 Advice on Areas for Improvement	科目已完 Task Comp 施訓者簽名 Instructor(Signa	oleted 7/日期
.1	Development, implementation, and oversight of standard operating procedures.					