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

專長 FUNCTION:管理級-航海 NAVIGATION AT THE MANAGEMENT LEVEL

項次 Ref No	訓練 Training			適任性證明 Competence
1	適任 Competence 航程計劃及執行 Plan a voyage and conduct	†	評估標準 Criteria for Evaluation	Demonstrated 同部門較自身高階之 甲級船員簽名/日期 Assessor (Signature/Date)
1.3	船舶報告 Ship reporting system (大副))	報告依據「船舶報告系統之一 般原則」與船舶交通服務程序 Reporting in accordance with the General Principles for Ship Reporting Systems and with VTS procedures	
	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	瞭解及使用「船舶報告系統之一般原則」 Understand and use of the General Principles for Ship Reporting Systems			
.2	瞭解及使用交通服務之程序 Understand and use of the vessel traffic service procedures			
	適任 Competence:		No. 21 125 No.	適任性證明 Competence Demonstrated
2			評估標準 Criteria for Evaluation	同部門較自高階之甲級 船員簽名/日期 Assessor (Signature/Date)

2.4	使用現代電子航儀(大副) Position fix using electronic navigation a	在電子航儀系統精確度標準 內獲得船位。並說出影響最終 船位精確度誤差的所在,並使 用正確之方法以減少系統誤 差 The fix obtained by the use of electronic navigational aids is within the accuracy standards of the systems in use. The possible errors affecting the accuracy of the resulting position are stated and methods of minimizing the effects of system errors on the resulting position are properly applied		
	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	現代電子航儀操作原理、限制、誤差源、 錯誤資訊之偵測及為獲得精確船位修正方 法之專業知識 Specific knowledge of electronic navigational aids operating principles, limitations, sources of error, detection of misrepresentation of information and methods of correction to obtain accurate position fixing	time and	PFJL/te	a, MOTC
.2	利用雷達定船位 Use radar to fix ship's position			
.3	利用地文電子系統定船位 Use electronic position-fixing system to fix ship's position			
.4	利用衛星導航系統定船位 Use satellite navigation systems to fix ship's position			

7	適任 Competence: 使用電子海圖顯示及資訊系統與相關之導航系統 協助作成指揮決策以維持航行安全 Maintain safety of navigation through the use of ECDIS and associated navigation systems to assist command decision making		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)
7.1	全面瞭解電子海圖顯示及資訊系統之操作程序、系統檔與數據之管理(大 Thorough understanding of the managen operational procedures, system files and	作程序、系統檔與數據之管理(大副) brough understanding of the management 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	海圖數據與系統軟體之購買、許可及更新的管理,須符合既定之程序 Manage procurement, licensing and updating of chart data and system software to conform to established procedures	time and	Port Bureau	ı, MOTC
.2	系統與資料更新,包括廠商依據產品開發,更新 ECDIS 系統版本之能力 System and information updating, including the ability to update ECDIS system version in accordance with vendor's product development			
.3	建立與保持系統之基本配置與備用檔案 Create and maintain system configuration and backup files			
.4	依據既定之程序,建立與保持紀錄檔案 Create and maintain log files in accordance with procedures			

		依據既定之程序,					
	.5	建立與保持航路計畫檔案					
	.3	Create and maintain route plan files in					
		accordance with procedures					
		使用 ECDIS 日誌與航跡紀錄功能,					
		檢查系統功能、報警設定與使用者回應					
	.6	Use ECDIS log-book and track history					
		function for inspections of system functions, alarm settings and user responses					
F		瞭解電子海圖顯示及資訊系統之使用,					
		並不能免除正常之航海當值、					
	_	管理與監測所應有之數據來源					
	.7	Understand that the use of ECDIS does not					
		release the navigator from proper					
		watchkeeping, managing and monitoring all					
		data sources					
		ECDIS 重播功能之應用(大副)			採取減低航行風險之行動		
	7.2				Actions taken to minimize risk to		
		Use ECDIS playback functionality			safety of navigation		
		運用 ECDIS 重播功能進行航行檢討, 航路					
	.1	計畫與系統功能					
	.1	Use ECDIS playback functionality and			Daut Divisa	. 110	
		review of system functions	ime an	1 (I	Port Bureat	u, MO	
	±+ · /	生田南了治园町二及洛如乡 从中训练及证从,料	1 亩 明 土 仁 雨 了 冶 原	7 55 二 72	恣知多好力的11月下午,	-	

註:使用電子海圖顯示及資訊系統之訓練及評估,對專門在無電子海圖顯示及資訊系統之船上人員而言, 得不必要求。但應於該有關航海人員所簽發之加簽證書上註明此項限制 Note: Training and assessment in the use of ECDIS is not required for those who serve exclusively on ships not fitted with ECDIS. This limitation

shall be reflected in the endorsement issued to the seafarer concerned.

9	適任 Competence 航行之應急反應 Respond to navigational	į	評估標準 Criteria for Evaluation	適任性證 Competence Demo 同部門較自身高 甲級船員簽名/ Assessor (Signatur	onstrated 高階之 /日期
9.1	迅速確定任何問題之型式及範圍,並採取行動增進船上人員之安全性(大副) The type and scale of any problem is promptly identified and actions taken to maximize safety of persons on board		迅速確定任何問題之型式及範圍,作出決定並採取行動以減少船舶系統任何故障所造成之影響。有效之通信符合所建立之程序。作出決定並採取行動增進船上人員之安全性The type and scale of any problem is promptly identified and decisions and actions minimize the effects of any malfunction of ship's system. Communications are effective and comply with established procedures. Decisions and actions maximize safety of persons on board		
	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 Comple 施訓者簽名/ Instructor (Signati	eted 日期
.1	船舶坐灘時應注意之事項 Precautions when beaching a ship				
.2	即將擱淺及擱淺後所採取之行動 Action to be taken if grounding is imminent, and after grounding				
.3	在有協助或無協助下使擱淺船舶重新浮起 Refloating a grounded ship with and without assistance				
.4	即將發生碰撞及發生碰撞後,或任何原因造成船體水密完整性損害時所採取之行動Action to be taken if collision is imminent and following a collision or impairment of the watertight integrity of the hull by any cause				

.5	對損害管制之評估 Assessment of damage control					
.6	應急操舵 Emergency steering					
.7	應急拖帶安排及拖帶程序 Emergency towing arrangements and towing procedure					
	適任 Competence	:		評估標準	適任性 Competence Der	•
10	在各種情況下操縱及操	条作船舶		रांteria for Evaluation	同部門較自身高	
	Manoeuvre and handle a ship i	in all conditions		Criteria for Evaluation	員簽名/E Assessor (Signat	
10.1	在各種情況下操縱及操作船舶(大副) Manoeuvring and handling a ship in all conditions		有關靠泊及錨泊之所有決定係 基於船舶操縱性、機器特性及靠 泊或錨泊時可能發生之應力 All decisions concerning berthing and anchoring are based on a proper assessment of the ship's manoeuvring and engine characteristics and the forces to be expected while berthed alongside or lying at anchor			
	科目/職責 Task/Duty	科目已完成 Task Complet 施訓者簽名/E Instructor(Signatur	ted I 期	對改進部分之建議 Advice on Areas for Improvement	科目已完 Task Com 施訓者簽名 Instructor (Sign	pleted 名/日期
.1	在接近引水站及引水人上下船之操縱, 尤應注意天氣、潮汐、艏接近及停止距離 Manoeuvres when approaching pilot stations and embarking or disembarking pilots, with due regard to weather, tide, headreach and stopping distances			•		
.2	在河道、河口及限制水域操作船舶,注意及海流、風及限制水域對舵效之影響 Handling ship in rivers, estuaries and restricted waters, having regard to the effects of current, wind and restricted water on helm response					

.3	船舶迴旋圈之應用 Application of constant-rate-of turn techniques					
.4	在淺水操縱船舶,包括由於艉坐、橫搖及縱搖之影響所減少之餘裕水深 Manoeuvring in shallow water, including the reduction in under-keel clearance caused by squat, rolling and pitching					
.5	船舶會船效應及岸吸效應之作用(運河效 應) Interaction between passing ships and between own ship and nearby banks (canal effect)					
.6	在各種不同之風、潮汐及海流情況下,使 用或不使用拖船離靠泊位 Berthing and unberthing under various conditions of wind, tide and current with and without tugs	; ; 3	1	尺 台 计	# 6	
.7	船與拖船之相互作用 Ship and tug interaction	加		PBILA	3 /c	J
.8	使用推進系統及操縱系統 Use of propulsion and manoeuvring systems	time a	and	Port Burea	u, MO	ГС
.9	錨地選擇;在受限錨地內使用單錨或雙錨 錨泊及使用錨鍊長短的決定等有關因素 Choice of anchorage; anchoring with one or two anchors in limited anchorages and factors involved in determining the length of anchor cable to be used.					
.10	走錨 Dragging anchor					
.11	解開糾纏之錨 Clearing fouled anchors					

	在惡劣天氣下操縱及操作船舶,包括救助遇						
	險船舶或飛機、拖帶作業、使失控船舶脫離						
	浪谷之方法、減少漂流與使用鎮浪油等						
.12	Management and handling of ship in heavy						
.12	weather, including assisting a ship or aircraft						
	in distress; towing operations; means of						
	keeping an unmanageable ship out of trough						
	of the sea, lessening drift and use of oil						
.13	在船舶受損及未受損情況下進乾塢						
	Dry-docking, both with and without damage						
	在惡劣天氣下操縱船舶釋放救難艇及救生						
.14	艇筏之注意事項						
	Precautions in manoeuvring to launch rescue						
	boats and survival craft in bad weather						
	從救難艇及救生艇筏上將生還者救上船之						
.15	方法						
	Methods of taking on board survivors from			I/ n-			
	rescue boats and survival craft						
	决定一般型式船舶之操縱及推進特性之能	• 4 LL					
	力,特別注意船舶在各種吃水及航速下之停						
12	止距離與迴旋圈範圍						
.16	Ability to determine the characteristics of						
	common types of ships, with special reference	time	\ \ \ \ \	Dart D	1116001	. 110	
	to stopping distances and turning circles at various draughts and speeds	time a		Port B	ureat	I, MU	
	減速航行以避免因本船之艏波及艉波造成					,	
	减还机行以避免囚本船之相波及艉波适成						
.17	Importance of navigating at reduced speed to						
1.17	avoid damage caused by own ship's bow						
	wave and stern wave						
	航行於冰區或接近冰區,或船上積冰之情						
	況應採取之實際措施						
.18	Practical measures to be taken when						
1.10	navigating in or near ice or in conditions of						
	ice accumulation on board						
	在分道航行制及船舶交通服務區及其附近						
	水域之操縱船舶航行與迫近						
.19	Use of, and manoeuvring in and near, traffic						
	separation schemes and in traffic service (VTS) areas						

專長 FUNCTION:管理級-貨物裝載 CARGO HANDLING AND STOWAGE AT THE MANAGEMENT LEVEL

項次 Ref No	訓練 Training	<u> </u>		適任性證明		
12	適任 Competence: 計劃並確保安全裝貨、積載、繋固、航行中照料及卸貨 Plan and ensure safe loading, stowage, securing, care during the voyage and unloading of cargoes		計劃並確保安全裝貨、積載、繁固、航行中照料及卸貨		評估標準 Criteria for Evaluation	Competence Demonstrated 同部門較自身高階之 甲級船員簽名/日期 Assessor (Signature/Date)
12.1	貨物安全操作程序之建立(大副) Establish procedures for safe cargo hand	ling	依所制定之程序及法定要求,計劃並執行貨物作業 Cargo operations are planned and executed in accordance with established procedures and legislative requirements stowage and securing of cargoes			
	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	應用有關安全裝卸、積載、繫固、及運輸貨物之國際規則、章程與標準之知識與能力 Knowledge of and ability to apply relevant international regulations, cods and standards concerning the safe handling, stowage, securing and transport of cargoes	time and	Port Bureau	a, MOTC		
.2	依據下列有關文書及其他資訊建立貨物安全操作程序之能力 Ability to establish procedures in accordance with the following instruments and other relevant information such as: 國際海運危險品章程 International Maritime Dangerous Goods (IMDG) Code					

.3	國際海運散裝貨物章程 International Maritime Solid Bulk Cargoes (IMSBC) Code		
.4	73/78 年防止船舶污染國際公約附錄Ⅲ及 V MARPOL73/78 Annexes Ⅲ and V		
12.2	貨物裝卸作業(大副) Cargo loading and unloading operation	迅速辨識貨物情況或規格之不可接受或難以預知之變 化,並即時採取補救措施與計 劃以保證船上人貨之安全。貨 物操作之執行條依所制定之 程序及法定之要求 Unacceptable or unforeseen variations in the condition or specification of the cargo are promptly recognized and remedial action is immediately taken and designed to safeguard the safety of the ship and those on board. Cargo operations are planned and executed in accordance with established procedures and legislative requirements stowage and securing of cargoes	
.1	迅速辨識貨物情況或規格之不可接受或難以預知之變化,並即時採取補救措施與計劃 Unacceptable or unforeseen variations in the condition or specification of the cargo are promptly recognized and remedial action is immediately taken and designed		
.2	貨物及貨物操作對俯仰及穩度影響之知識 Knowledge of the effect on trim and stability of cargoes and cargo operations		

.3	使用穩度及俯仰圖表及應力計算設備包括 自動化數據設備(ADB)之能力,及為保 持船體應力在可接受限度內而裝貨及壓載 之知識 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				
.4	有能力闡述在船岸間建立有效通信及改善工作關係之基本原則 Ability to explain the basic principles for establishing effective communication and improving working relationship between ship and terminal personnel				
.5	液貨船及液貨船操作之一般知識 General knowledge of tankers and tanker operations	首立	R 自古 诗	Ŧ E	
.6	散裝貨船操作與設計局限性之知識 Knowledge of the operational and design limitations of bulk carrier		PBLA	7/6	
.7	使用船上所有可資利用有關散裝貨裝載、 管理與卸載資料之能力 Ability to use all available shipboard data related to loading, care and unloading of bulk cargoes	e and	Port Bureau	u, MO	ГС
12.3	在船上積載及繫固貨物(大副) Stowage and securing of cargoes on board ships		貨物之積載及繫固確保航行 中穩度與應力狀況始終在安 全限制內 Cargoes ensures that stability and stress conditions remain within safe limits at all times during the voyage		

.1	在船上積載及繫固貨物包括裝卸貨設備及 繫固與拉緊設備 Stowage and securing of cargoes on board ships, including cargo-handling gear and securing and lashing equipment 裝卸操作尤應注意「貨物積載及繫固安全 操作章程」所述之貨物運輸 Loading and unloading operations, with special regard to the transport of cargoes identified in the Code of Safe Practice for Cargo Stowage and Securing		
12.4	航程中照料(大副) Care during the voyage	監督貨物狀況之頻率及程度 適於其性質及當時情況 The frequency and extent of cargo condition monitoring is appropriate to its nature and prevailing conditions	
1	依據貨物之性質與當時情況決定檢查貨物 狀況之頻度 Determine the frequency and extent of cargo condition monitoring in according with the nature and prevailing conditions of cargoes	Port Bureau	a, MOTC
13	適任 Competence: 對存放貨物的空間、艙口蓋與壓水艙所作之 缺點報告予以評估並採取適當措施 Assess reported defects and damage to cargo spaces, hatch covers and ballast tanks and take appropriate action	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	標準散裝貨船重要構造強度限制(大語 The limitations on strength of the vital co standard bulk carrier	對貨物有原則評估、有憑據的 論證及正確性。根據船舶之 安全與當時之狀況做出 可以被接受之決定 Evaluations are based on accepted principles, well-founded arguments and correctly. The decisions taken are acceptable, taking into consideration the safety of the ship and the prevailing conditions		
	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	標準散裝貨船重要構造強度限制之知識 Knowledge of the limitations on strength of the vital constructional parts of a standard bulk carrier	诗面立	R 由古 计	井昌
.2	對所給數據詮釋彎曲力矩與剪力之能力 Ability to interpret given figures for bending moments and shear forces		PBLA	T 1 Q J
.3	闡述如何避免對散裝貨船不利影響之腐蝕、疲乏及不當貨物操作之能力 Ability to explain how to avoid the detrimental effects on bulk carriers of corrosion, fatigue and inadequate cargo handling	time and	Port Bureau	
14	適任 Competence 危險貨物載運 Carriage of da		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)

14.1	危險貨物載運有關之國際規則、標準 International regulations, standards, code on the carriage of dangerous cargoes	貨物之配載計畫係基於可信 賴之資料及依所制定之準則 及法定之要求 Planned distribution of cargo is based on reliable information and is in accordance with established guidelines and legislative requirements			
	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	對國際海運危險品章程之知識 Knowledge of the International Maritime Dangerous Goods (IMDG) Code 標		0 47 • 1		
.2	對國際海運散裝固體章程之知識 Knowledge of the International Maritime Solid Bulk Cargoes (IMSBC) Code	3用 岩	SHI X	\$E	
14.2	裝卸期間注意之事項及航行中之照料 Precautions during loading and unloadin voyage		有關危險之資料與特別要求 係記載於在意外事故發生時 易於參考之表格中 Information on dangers, hazards and special requirements is recorded in a format suitable for easy reference in the even of an incident		
.1	將有關危險之資料與特別要求記載於在意外事故發生時易於參考之表格中 Information on dangers, hazards and special requirements is recorded in a format suitable for easy reference in the even of an incident				

專長 FUNCTION:管理級-船舶操作與船上人員管理 CONTROLLING THE OPERATION OF THE SHIP AND CARE FOR PERSONS ON BOARD AT THE MANAGEMENT LEVEL

項次 Ref No	訓練 Training				適任性證明 Competence	
19	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	Demonstrated 同部門較自身高階之 甲級船員簽名/日期 Assessor (Signature/Date)	
[19.1]	派出任務與工作量管理之能力(大副) Ability to apply task and workload management			分派船員之任務並告知適於各有關人員之預期行為方式與工作標準。必要之團隊人員分別瞭解現有與預期船舶之操作情況與外部環境之狀況The crew are allocated duties and informed of expected standards of work and behaviour in a manner appropriate to the individuals. Necessary team member(s) share accurate understanding of current and predicted vessel and operational status and external environment		
	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	計劃與協調 Planning and co-ordination					
.2	人員分派 Personnel assignment					
.3	時間與資源之限制 Time and resource constraints					

.4	優先順序 Prioritization				
19.7			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		
.1	標準操作程序之制定、履行與監督 Development, implementation, and oversight of standard operating procedures				

