

依據 IMO STCW 2010 修正案之適任性要求 As required by the 2010 amendments to the IMO STCW Convention 交通部航港局核定

船上訓練紀錄簿

申請助理級輪機當值及輪機助理員適任證書

ONBOARD TRAINING RECORD BOOK

FOR RATINGS FORMING PART OF AN ENGINEERING WATCH AND RATINGS QUALIFYING AS ABLE SEAFARER ENGINE

依據國際海事組織航海人員訓練發證及當值標準國際公約 2010 年修正對適任性之要求 Based on the competence requirement of the 2010 amendments to the IMO STCW Convention

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編號 (Series No.): ESTR 學員無須填寫此處

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各職級船上訓練紀錄簿審核須知

一、交通部航港局(以下簡稱本局)為落實「船員訓練檢覈及申請核發證書辦法」第五十四條、第五十五條、第五十七條及第五 十八條有關船員申請核發適任證書應檢附船上訓練紀錄簿規定,辦理船上訓練紀錄簿審查事宜,特訂定本須知。

Ministry of Transportation and Communications, Maritime and Port Bureau (MOTCMPB) set this direction to implement the Article 54,55,57,58 in "The Regulation for Seafarer Training Assessment and Application for Certification" about seafarers's application for certificate of competency should attach with "On-board training record book" (OBTRB),

二、船員進行船上訓練紀錄簿所列之各項訓練前,應備妥船上訓練紀錄簿,並應於「船員訓練檢覈及申請核發證書辦法」第六十 三條所列船舶及航行區域完成。自一百零六年一月一日起申請核發適任證書者,應檢附依據「航海人員訓練、發證及當值標 準國際公約二〇一〇年修正案」適任性要求且經本局核定之版本。

Before on-board training proceed, seafarers should prepare OBTRB and should follow the Article 63 of "The Regulation for Seafarer Training Assessment and Application for Certification", complete the ship and touring area in the book. Since 1st of January of 2017, all the applicant should follow the requirement in 2010 STCW amendment and hold the updated version of OBTRB which approved by MOTCMPB.

三、船上訓練紀錄簿規定欄位均應完成簽署。但符合「船員訓練檢覈及申請核發證書辦法」第六十二條者,准予豁免,惟其適任證書應加註限制。

All the sections on OBTRB to be completed, except clause which could be exempted as mentioned in the Article 62 of "The Regulation for Seafarer Training Assessment and Application for Certification", but should issue a restriction the same in the FINAL REPORT section.

四、於公務船或港勤工作船舶完成船上訓練紀錄簿之船員,申請核發適任證書應加註限制。如於公務船或港勤工作船舶完成船上 訓練紀錄簿符合一般商船船員標準,雇用人應檢附船舶設備相關資料送本局審議。

When seafarers working on official ship and/or workboat, completed the OBTRB, Certificate should issue with endorsement. If the training keep the same with common merchant seafarers standard, employer should attached with revelvant document for review by this office.

五、學員與船上訓練紀錄簿簽署人員,於訓練期間應服務於同一艘船舶,並請學員檢附簽署人員基本資料表(格式如附件),俾利 審查。

Trainee and the signatory in OBTRB, should service on same ship and same time, trainee should fill the Attachment-Basic data of Signatory on OBTRB hereunder for easy reviewing.

六、 船上訓練紀錄簿訓練項目簽署完成後,須經船長或輪機長及其所屬雇用人於總結報告填寫評定意見,按照訓練紀錄簿規範及 所載項目完成訓練且經評估合格,再予正楷簽署,未填寫評定意見者不予受理。

After OBTRB has been completed, the Master and/or Chief Engineer of the ship should post address their comment in the final report, as the regulation on OBTRB, complete all the items, evaluate and signature. OBTRB will not be accepted by this office if no comment posted.

實務上訓練員常有非正楷簽名之情形,如有該情形,建議將 簽名樣式簽於「簽署人姓名」欄左側空白處,以供核對。

附件-船上訓練紀錄簿簽署人員基本資料表

Attachment-Basic data of Signatory on "on-board training record book"

				our a training record book	
簽署人姓名 Name of the signatory	簽署人國籍 Nationality	簽署人 職務 Duty	船員服務手冊字號 (外籍船員免填) Seaman Book Number(N.A. if other Nationality)	船名/任卸職日期 Ship's name/Date Sign On-Off	公司確認後蓋章 Company Endorsement
李師玉	中華民國 或 ROC	輪機長	基 XXXX 或 A1234567	中文或英文船名擇一填寫 2021.8.23/在職中	公司章
William Sachs	Singapore	大管論(對大 管輪訓練的 指派訓練員)	7/1/3	中文或英文船名擇一填寫 2021.12.23/在職中	公司章
Anand Gupta	India	二管輪(施訓 者)		中文或英文船名擇一填寫 2021.9.3/在職中	公司章
陳耀祥	中華民國 或 ROC	輪機長	基 XXXX 或 A1234567	中文或英文船名擇一填寫 2022.4.3/在職中	公司章
Jeffrey Hudson	Singapore	大管輪(對大 管輪訓練的 指派訓練員)		中文或英文船名擇一填寫 2021.11.1/2022.6.6	公司章
林琨生	中華民國 或 ROC	大管輪(對大 管輪訓練的 指派訓練員)	基 XXXX 或 A1234567	中文或英文船名擇一填寫 2022.6.5/在職中	公司章
Rthan Tan	Singapore	二管輪 (施 訓者)		中文或英文船名擇一填寫 2022.3.5/在職中	公司章
	太統例・學昌	目羽時問九尚渾	 	 22.3.29, 在嘉運輪 2022.4.9	
	平 判 例 . 子 貝)	九 白 吋 间 仕 币 建	: 冊 日 4041.7.3 到 40.	22.3.23,住茄乓辆 2022.4.3	

到 2022.9.12

(於本紀錄簿"適任證明","審查核閱", "總結報告" 欄位之所有訓練員,皆應於此頁登載相關資訊,如本頁不敷使用,請自行影印空白頁使用,浮貼於本頁之上。另建議附上蓋了船章的船員名單,尤其是有外國人簽署的文件)

國際航運同盟(ISF)第二版 SECOND EDITION

1909年所設立之國際航運同盟(ISF)係代表國際海運協會當在勞工事務、人力和訓練問題時,所使用的名稱。ISF/ICS之會員包括36個國家之船東協會。ISF享有國際海事組織(IMO)諮詢之地位並率海運雇主代表自始至終完成2010年6月在馬尼拉所召開修正STCW國際公約之外交會議。

Established in 1909, the International Shipping Federation (ISF) is the name used by the International Chamber of Shipping (ICS) when representing maritime employers globally on labour affairs, manpower and training issues. ISF/ICS membership comprises national shipowners' associations from 36 countries. ISF enjoys consultative status with the International Maritime Organization (IMO) and led the representation of maritime employers throughout the revision of the STCW Convention culminating with the Diplomatic Conference, in Manila, in June 2010.

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本中譯之船上訓練紀錄簿係獲國際海事業務公司於2014年9月9日來函同意並授權中華民國船長公會以中文翻譯其刊行之「船上訓練紀錄簿」在案。

The Master Mariners' Association of the Republic of China had been received a latter of permission from Maritime International Secretariat Services Limited. (ISF), Dated on 9th Sep, 2014, for authorize of translation and publication of this "ON Board Training Record Book" in Chinese edition.

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國際航運同盟(ISF)第二版序 SECOND EDITION INTRODUCTION

國際海事組織之航海人員訓練發證及當值標準公約(STCW)業於 2010 年予以修正更新。本訓練紀錄簿完全考慮及該項對助理級輪機當值乙級船員的需求,並針對 IMO 標準對輪機助理員建構訓練。

In 2010, the IMO Convention on Standards of Training, Certification and Watchkeeping for Seafarers (STCW) was revised and updated. This Training Record Book takes full account of these new requirements for ratings forming part of an engineering watch. This book also address the additional competence standards stipulated by IMO for the grade of Able Seafarer Engine.

該修正 STCW 國際公約持續重視對訓練成果之評估,即航海人員適任所執行職責之能力。尤其是該 2010 公約要求乙級船員之海勤資歷必需適當建構並記錄於訓練紀錄簿,經負責簽發適任證書之海事主管機關核定。修正之 STCW 本文明確提及 ISF 訓練紀錄簿為此文件之例。

The revised STCW Convention continues to place emphasis on assessment of the outcome of training, i.e. the ability of seafarers to perform their duties competently. In particular, the 2010 Convention requires that a rating's seagoing service must be properly structured and recorded in a training record book approved by the maritime administration responsible for issuing certificates of competence. The footnotes of the amended STCW text specifically refer to ISF training record books as an example of such documentation.

STCW 章程含有經修正 STCW 國際公約之詳細規定,對申請為助理級輪機當值或輪機助理員達到適任性所需之各項技能作一致之標準。該 STCW 章程亦對學員達到此等適任性應經指派訓練員予以評估之標準作出規定。

The STCW Code, which contains the detailed requirements of the revised STCW Convention, sets out uniform standards for the attainment of competences in the various maritime skills required to qualify as a watchkeeping rating or an Able Seafarer Engine. The STCW Code also stipulates criteria by which a trainee's attainment of these competences should be assessed by designated on board training officers.

在本紀錄簿中之科目業經周密之設計以協助學員符合 STCW 所規定適任性之發證要求,並儘可能使監督他們訓練之訓練員利用 STCW 章程表 A-III/4 及 5 為基準予以評估。然該等科目已考慮安排在船上訓練監督。該訓練科目與評估之標準在許多情況下比在該公約全文中者更為詳盡。這是為了協助學員確使其在海上服務中作最佳之利用並協助學員之訓練員作客觀之評估他們是否的確適任。

The tasks contained in this Record Book have been carefully designed to help ensure that trainees meet the requirements for certification stipulated by the STCW competences and that as far as possible the officers supervising their training use evaluation based on Table A-III/4 and Table A-III/5 of the STCW Code. However, the tasks have been arranged with on board training in mind. The training tasks and associated criteria are, in many instances, presented in more detail than in the text of the Convention. This is to help ensure that trainees make the best use of their seagoing service and to help officers supervising trainees make an more objective evaluation of whether they are indeed competent.

本船上訓練紀錄簿可提供足夠之書面證據,證明該學員業巳完成船上適當之訓練方案,並證明其技能可適任 STCW 2010 修正案之標準,為此得核發助理級輪機當值或輪機助理員之適任證書。

Completion of the On Board Training Book should provides sufficient documentary evidence that a trainee has completed a properly structured on board training programme and has demonstrated competence in the skills required by the amended STCW Convention in order to be certificated as a rating forming part of an engineering watch and/or as an Able Seafarer Engine.

註:基於發證國家之不同,需求亦有所不同,本紀錄簿已儘可能依照前述 A-VI/1 及 A-III/4 and A-III/5 列出訓練之項目。

Note: The certificate issuing administration, which may or may not be the same as the flag of the ship(s) on which on board training is conducted, may determine appropriate training, assessment and certification requirements in addition to the compentences and tasks contained in the Record Book. In practice, however, most if not all such requirements will form part of shore based Basic Training (in accordance with Section A-VI/1 of the STCW Code) and Special Training, as applicable (in accordance with Regulation III/4 and III/5)

目錄 CONTENTS

第一部分 SECTION 1	使用說明 Guide to completion	1
	學程摘要紀錄 Summary record of progress	3
	學員資料 Particulars of trainee	3
	基本訓練 Basic training	5
	其他訓練紀錄 Record of other training	6
第一部入 SECTION 2	船上服務紀錄 Shipboard record of service	7
第二部分 SECTION 2	指派訓練員對訓練進度之審查 Designated training officer's review of training progress	8
	輪機長每月對紀錄簿之核閱 Chief engineer officer's inspection of record book	10
	公司對紀錄簿之核閱 Company's inspection of record book	12
	基本訓練學習所採用書籍、錄影帶或訓練用電腦課程之清單 List of publications, video or	13
	computer-based training studied/used	
第三部分 SECTION 3	強制之安全與船上熟悉 Mandatory safety and shipboard familiarization	14
第四部分 SECTION 4	船舶規格 Particulars of ships	20
	訓練科目資訊及應予達成之適任性 Information on training tasks and competences to be achieved	26
第五部分 SECTION 5	如何填寫訓練科目及達成適任性之範例 Example of how to complete the list of training tasks and	
	competences achieved	28
 第六部分 SECTION 6	助理級輪機當值之科目 Tasks for ratings forming part of an engineering watch	30
第八部分 SECTION 0	專長 Function:助理級-輪機工程 Marine engineering at the support level	32
	輪機助理員之科目 Tasks for ratings qualifying as able seafarer engine	50
	專長 Function:助理級-輪機工程 Marine engineering at the support level	51
	專長 Function:助理級-電機、電子及控制工程 Electrical, electronic and control engineering at the	69
第七部分 SECTION 7	support level	
	專長 Function:助理級-保養及維修 Maintenance and repair at the support level	73
	專長 Function:助理級-船舶操作與船上人員管理 Controlling the operation of the ship and care for	82
	persons on board at the support level	
第八部分 SECTION 8	科目概要表 Task summary chart	93
海上が入 SECTION O	總結報告(助理級輪機當值)Final report (ratings forming part of an engineering watch)	97
第九部分 SECTION 9	總結報告(輪機助理員)Final report (ratings qualifying as able seafarer engine)	101

第一部分 使用說明 SECTION 1 GUIDE TO COMPLETION

輪機長、指派船上訓練員及學員應注意事項

For the attention of chief engineer officer, designated on board training officers and trainees 本紀錄簿之目的 Purpose of the Record Book

- ■本紀錄簿之目的在協助乙級船員,使其在海上期間遵循建構之訓練進度作最佳之運用。依此他們能取得 STCW 國際公約 2010 年修正所要求成為適任助理級輪機當值或輪機助理員所需實際訓練與經驗。因此小心遵循本指導是很重要的。 The purpose of this Record Book is to help ensure that ratings follow a structured programmed of training and make best use of their time at sea. In so doing they will gain the practical training and experiences necessary to become competent watchkeeping engine ratings, and/or able seafarer engine in accordance with the STCW Convention, as amended in 2010. It is therefore important that this guidance is carefully followed.
- ■本訓練紀錄簿依規定需陳送政府指定之審查員處,因此適當使用及填寫本紀錄簿是很重要的。所填寫之內容應經該學員所服務船舶之輪機長、指派訓練員及船公司仔細核閱。
 Given that this Training Record Book will be submitted to government appointed examiner proper use and completion of this Book is essential. It should be subject to close scrutiny by the chief engineer officer of the ships on which the trainee serves, by the trainee's designated on board training officers and the shipping company.

當收到本紀錄簿時 On receipt of this Book

- ■受訓學員應填寫下列各頁所要求之資料,包括第5頁依 STCW 國際公約應接受之基本訓練與任何特殊訓練之細節。並由學員個人在整個訓練過程中,對本紀錄簿負起安全保管之責。
 - The trainee should complete the information required on the following pages including details of Basic Training (page 5) received in accordance with the STCW Convention. The trainee will then be personally responsible for the safe keeping of this Book throughout training.

上船後應儘速完成事項 As soon as possible after joining each ship

- ■第三部分有關強制之安全熟悉 (第 14 頁) 與強制之船上熟悉 (第 16 頁) 學員應於向各船報到後立即完成,並由一位甲級船員簽署以表示依 STCW 國際公約規定之該強制性熟悉業已施行。
 - Section 3, concerning details of mandatory Safety Familiarization (page 14) and mandatory Shipboard Familiarization (page 16), should be completed immediately after the trainee joins each ship. An officer should sign to signify that mandatory familiarization as required by the STCW Convention has been undertaken.
- ■學員應填寫第20頁第四部分有關該船之技術性細項。各船之船長與指派訓練員應提供機會以進行此訓練。
 The trainee should complete Section 4 (page 20) concerning the technical details of the vessel. The master and the designated training officer on board each ship should provide an opportunity for this exercise to be undertaken.

■由輪機長指派之訓練員應檢查此紀錄簿以確定已依程序為之。為了解尚未完成之適任性評估項目,應作成計畫以便掌握。有關科目概要表如第八部分(第93頁)。

The designated on board training senior officer appointed by the chief engineer officer should inspect this Book in order to check progress already made. A plan should be made to tackle the competences that still need to be demonstrated. A Task Summary Chart can be found in Section 8 (page 93).

當學員於海上服務期間 Throughout the trainee's seagoing service

- ■第六及第七部分助理級輪機當值及輪機助理員之訓練科目,應予循序完成。對於記錄程序之附加指導在第五部分(第 26頁)另有說明。
 - Section 6,7 which contains a list of on board training tasks, should be progressively completed. Additional guidance on recording progress is given at the start of Section 5 (page26).
- ■在第八部分(第93頁)之科目概要表亦應循序完成。The Task Summary Chart in Section 8(page 93) should also be progressively completed.
- ■本紀錄簿應每月及合約期滿離船時陳送輪機長核閱。輪機長之意見應予記錄於第 10 頁並加註日期及蓋章。所提之意見應限於與該學員適任性及實際進度有關者。
 - The Book should be submitted to the chief engineer officer for inspection every month and at the end of each voyage. The chief engineer officer's comments should be recorded, dated and stamped on page 10. Comments should only relate to the trainee's competence and practical progress.
- ■當學員向各船報到時應遞交本紀錄簿指派訓練員。嗣後在航程情況許可下應每週遞交指派訓練員。其意見應予記錄於第8頁。
 - The Book should be submitted to the designated on board training officer on joining each vessel and then, as far as the voyage pattern allows, every week. Comments should be recorded on page 8.
- ■本紀錄簿亦應由船公司予以審閱。其意見應予記錄於第 12 頁。
 The Book should also be inspected by the shipping company. Comments should be recorded on page 12.
- ■學員之海勤資歷包括在機艙當值任務累計時間應予確切記錄於第7頁。
 A precise record should be kept of the trainee's seagoing service including time spent on bridge watchkeeping duties page 7.

重要注意事項 Important note

- ■STCW 國際公約規定施行船上訓練之任何人員應限於不致嚴重影響船舶正常操作之情況下及有時間專注於訓練與任何適任性評估時始施行之。
 - The STCW Convention requires that any person conducting on board training shall do so only when it will not adversely affect the normal operation of the ship and time can be dedicated to the training and any evaluation of competence.
- ■任職輪機部門乙級船員職務,始得填寫本訓練紀錄簿。相關事項依我國「船員訓練檢覈及申請核發證書辦法」辦理。 Engine hands, is the man could complete this book. Other mattershould refer to the regulation 「Mariner training review and issuing certificate rules」from MOTCMPB

第二部分 學程摘要紀錄 SECTION 2 SUMMARY RECORD OF PROGRESS 學員資料 PARTICULARS OF TRAINEE(以下契約所指為上下船之僱傭契約)

應由學員以正楷填寫 to be completed by the trainee in BLOCK CAPITALS

中文全名 Name in Chinese 根據船員服務手冊中文姓名 英文全名 Name in Full 根據船員服務手冊英文姓名 船員服務手冊字號 Seafarer's Book No 根據手冊 出生日期 Date of Birth 根據身分證 住址 Home Address 通訊地址 住址變更(如變更時)Change of Address (if applicable)	照片 PHOTO			
公司 Sponsoring Company 所有訓練中之任職公司皆應登載,如表格不敷使用,請自行影印空白頁使用				
地址 Address 公司所在地址(或台灣代理或辦事處) 契約 Trainee Agreement 起始日期 Date Started <u>雇傭契約約定日</u> 終止日期 Date Expired <u>下船日</u> 公司變更(如變更時)Change of Sponsoring Company (if applicable) 地址 Address <u>變更後之地址</u>				

訓練進度 Training Program (適用時 as applicable)

學校階段 COLLEGE PHASES				
"學校階段"應顯示曾經就讀大專院校航輪專業科系	起 From:入學日開始	迄 To: 畢業證書(在學證明)所列		
或 乙訓班的培訓機構資訊	起 From:	迮 To:		
	起 From:	迄 To:		
	起 From:	迄 To:		
海上階段 SEA PHASES:				
此階段乃指在船期間的部分,可自行分成當值期	起 From: 上船日開始	迄 To 階段完成日		
間或是純例行工作部分或是管理階段	起 From:	迄 To: 階段完成日		
中文或英文船名擇一填寫	起 From:	迄 To: 階段完成日		
	起 From:	迄 To:		
	起 From:	迄 To:		
	起 From:	迄 To:		
	起 From:	迄 To:		
	起 From:	迄 To:		

基本訓練 BASIC TRAINING

依 STCW 章程 A-VI/1 節第 2 項之規定 As required by Section A-VI/1 paragraph 2 of the STCW Code

為航前訓練之一部分,應於航前完成下列之基本訓練或講授。並將此訓練或講授詳細填寫於下表。 As part of your pre-sea training you should have completed Basic Training or instruction as listed. Enter details of this training or instruction below.

訓練項目	日期 Date	訓練單位 Location	文件字號 Document Number
基本安全訓練 Basic training:(應包含以下四項訓練)	依理應有的	證書上的資訊	
人員求生技能 Personal survival techniques	4		
防火及基礎滅火 Fire prevention and basic fire fighting			
基礎急救 Elementary First aids			
人員安全與社會責任 Personal safety and social responsibility			



其他訓練紀錄 RECORD OF OTHER TRAINING

訓練項目	日期 Date	訓練單位 Location	文件字號 Document Number
助理級輪機當值	4/7	127	
Rating forming part of an engine-room watch			
輪機助理員	Y/X-	7	
Able seafarer engine		1 ,	
救生艇筏及救難艇操縱			
Proficiency in Survival Craft and Rescue Boats			
快速救難艇			
Proficiency in Fast Rescue Boat			
保全意識			
Security Awareness Training			
保全職責	根據所發證	書上的資訊填	寫
Security Training for Seafarers with Designated Security Duties	如果沒有則	空白	
油輪與化學液體船貨物操作基本訓練			
Basic Training for Oil and Chemical Tanker Cargo Operations			
液化氣體船貨物操作基本訓練			
Basic Training for Liquefied Gas Tanker Cargo Operations			
客輪訓練			
Passenger Ship Training			
駛上駛下客輪訓練			
Ro-Ro Passenger Ship Training			
高速船基本訓練			
High Speed Craft Basic Training			

船上服務紀錄 SHIPBOARD RECORD OF SERVICE

船名	IMO 號碼	日 Da	期 tes	機艙當值累計時間 Time Spent on Watchkeeping Functions		海上航行服務合計 Voyage Total -Seagoing Service	
Ship	IMO Number	任職 Sign on	卸職 Sign off	月數 Months	日數 Days	月數 Months	日數 Days
中文或英文船名擇一填寫	該船 IMO 號碼	2021.12.11	2022.3.31	2	13	3	21
中文或英文船名擇一填 寫	該船 IMO 號碼	2022.3.16	2023.5.2	6	6	13	17
	海勤資歷計算規則	請參閱本局舟	出員智慧服務				
	,	,		(詳網」	上: <u>https://gov.t</u>	:w/iAH,或下	方 QR code)
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						975. 1914 -	
	XIT	總計服務 T	otal Service	8	19	17	8

備註:

- i. 依「船員訓練檢覈及申請核發證書辦法」第57條申請助理級輪機當值適任證書須出具於國內航線至少1年、或於國際航線至少2個月之海勤資歷。並須具備國內航線至少4個月、或於國際航線至少20日之機艙當值累計時間。
- ii. 依「船員訓練檢覈及申請核發證書辦法」第58條申請輪機助理員適任證書須出具於國際航線任職幹練水手或舵工至少1年之海 勤資歷。並須具備國際航線至少4個月之機艙當值累計時間。

指派訓練員對訓練進度之審查

DESIGNATED TRAINING OFFICER'S REVIEW OF TRAINING PROGRESS

指派訓練員應為同部門較自身高階之甲級船員,本表至少應在該船航務允許之期間或每週一次內完成(視公司規定自行加頁)。

This table should be completed at least once a week or at such intervals as the trading of the vessel allows. 所填之意見限與學員實際進度及適任性有關者,不應涉及個人性格特質。

Comments should only relate to the trainee's practical progress and competence and should NOT refer to character.

	立日 Commants	正楷姓名	簽名	日期
船名 Ship	意見 Comments	Name in BLOCK CAPITALS	Signature	Date
中文或英文船名 擇一填寫		1/E William Sachs 註明職級及正楷姓名		2021.10.29
中文或英文船名 擇一填寫	"意見"選項 以"合格", "Qualified", "Competent", "满意", "Satisfied"," on schedule", "Successful"為正面表述 以"不合格", "unsatisfied", "should repeat", "不满意"," training time to be extended"為負面表述.	1/E William Sachs 註明職級及正楷姓名	訓練員 本人簽字 訓練員本人之簽字必 須能清楚辨識姓名	2021.11.30
中文或英文船名 擇一填寫		1/E William Sachs 註明職級及正楷姓名		2021.12.28
中文或英文船名 擇一填寫		1/E William Sachs 註明職級及正楷姓名		2022.2.28
中文或英文船名 擇一填寫		1/E Jeffrey Hudson 註明職級及正楷姓名		2022.2.28
中文或英文船名 擇一填寫		1/E Jeffrey Hudson 註明職級及正楷姓名		2022.5.28
中文或英文船名 擇一填寫		大管輪 林琨生		2022.7.15

	註明職級及正楷姓名	



指派訓練員對訓練進度之審查 (續)

DESIGNATED TRAINING OFFICER'S REVIEW OF TRAINING PROGRESS

船名 Ship	意見 Comments	正楷姓名 Name in BLOCK CAPITALS	簽名 Signature	日期 Date
中文或英文船名 擇一填寫	"意見"選項 以"合格", "Qualified", "Competent", "滿	C/O Jeffrey Hudson 請註明職級及正楷姓名	訓練員本人之簽字 必須清晰可清楚閱 讀	2022.5.28
中文或英文船名 擇一填寫	意", "Satisfied"," on schedule", "Successful"為正面表述	大管輪 林琨生 請註明職級及正楷姓名	本人簽字	2022.7.15
	以"不合格", "unsatisfied", "should repeat", "不满意", "training time to be extended"為			
	負面表述.			
	X-17/			

輪機長每月對紀錄簿之核閱

CHIEF ENGINEER OFFICER'S MONTHLY INSPECTION OF RECORD BOOK

所填之意見限與學員實際進度及適任性有關者,不應涉及個人性格特質。
Comments should only relate to the trainee's practical progress and competence and should NOT refer to character.

船名 Ship	意見 Comments	輪機長正楷姓名 Chief engineer officer's Name in BLOCK CAPITALS	輪機長簽名 Chief engineer officer 's Signature	日期 Date	船章 Ship'S Official stamp
中文或英文船名擇一填寫中文或英文船名擇一填寫	"意見"選項 以"合格", "Qualified", "Competent", "滿意", "Satisfied"," on schedule", "Successful"為正面表述 以"不合格", "unsatisfied", "should repeat", "不满意", "training time to be extended"為負面表述.	(應吻合船上訓練 紀錄簿簽署人員 基本資料所列)	輪機長 本人簽字 本人之簽字必須清 晰可清楚閱讀	YYYY.MM.DD YYYYY.MM.DD	Stamp 船章

輪機長每月對紀錄簿之核閱(續)

CHIEF ENGINEER OFFICER'S MONTHLY INSPECTION OF RECORD BOOK

船名 Ship	意見 Comments	輪機長正楷姓名 Chief engineer officer's Name in BLOCK CAPITALS	輪機長簽名 Chief engineer officer 's Signature	日期 Date	船章 Ship's Official stamp
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公司對紀錄簿之核閱

COMPANY'S INSPECTION OF RECORD BOOK

所填之意見限與學員實際進度及適任性有關者,不應涉及個人性格特質。 Comments should only relate to the trainee's practical progress and competence and should NOT refer to character.

船名 Ship	意見 Comments	正楷姓名 Name in BLOCK CAPITALS	簽名 Signature	日期 Date	公司章 Company'S Official Stamp
中文或英文船名 擇一填寫	"意見"選項	陳耀昌	本人簽字 本人之簽字必須清 晰可清楚閱讀	2022.4.2	八司辛
中文或英文船名 擇一填寫	以"合格", "Qualified", "Competent", "满意", "Satisfied"," on schedule", "Successful"為正面表述	陳耀昌	本人簽字 本人之簽字必須清 晰可清楚閱讀	2022.9.12	公司章
中文或英文船名 擇一填寫	以"不合格", "unsatisfied", "should repeat", "不满意", "training time to be	7			
	extended"為負面表述.				
	*//_				

基本訓練學習所採用書籍、錄影帶或訓練用電腦課程之清單

(建議以通識知識為主,如果是屬船圖,機器設備說明書不宜在此列表)

LIST OF PUBLICATIONS, VIDEO OR COMPUTER-BASED TRAINING PROGRAMMES STUDIED/USED

日期 Date	標題 Subject/Title	訓練員簽名 Officer's Signature
	(如無參考書籍或訓練錄影帶支援或任何海技部門發行之出版品者請公司或船長或訓練師提供 P&I 或其他相關網上資料襄助)	
	公司各部門發往船上的通函或公告	
	(在訓練中之學員,指派訓練員或船長可考慮隨機詢問對內容的了解程度) 公司為船上購買的訓練軟體(如公司並未購置訓練軟體,指派訓練員可指定以下各專業	
	領域書籍或網址列入考核,由於專業部分涉及程度深淺,由船長或指派訓練員決定項	a and the
	目) 液貨輪: ISGOTT, OCIMF/SIRE 散裝輪: RIGHT ship	以附件- 船上訓練紀錄簿有做
	貨櫃輪: https://www.emsa.europa.eu/containership-safety/cargosafe.html	簽署的人員 為名單堤供者
	建議網站,比如船東責任險網址 https://britanniapandi.com/knowledge-	对力中央 [八名
	result/?document_type=Loss%20Prevention%20Insight 一般航安服務網址 https://www.marineinsight.com/marine-navigation/what-is-stowage-	
	factor/	
	污染議題 https://www.itopf.org/knowledge-resources/documents-guides/technical-information-papers/	

第三部分 強制之安全與船上熟悉

SECTION3 MANDATORY SAFETY AND SHIPBOARD FAMILIARISATION

安全熟悉 SAFETY FAMILIARISATION

依 STCW 章程第 A-VI/1 節第 1 項之規定 as required by Section A-VI/1 paragraph 1 of the STCW Code

在船上被指派任務之前,所有船員應接受安全熟悉訓練,以瞭解在緊急情況下該如何處理。各船之船長或負責之甲級船員應在下表簽署,並加註日期顯示業已接受訓練或講授,足以執行所交付之任務或責任。

Before being assigned to shipboard duties all seafarers must receive basic safety familiarization to know what to do in an emergency. The master or responsible officer on each ship should sign and date below to signify that you have received training or instruction to be able to carry out the following tasks or duties.

船名 Ship's Name	中文或英文船名 擇一填寫	中文或英文船 名擇一填寫			
任務/職責 Task/Duty	訓練員 簽名/日期 Officer's Signature/Date	訓練員 簽名/日期 Officer's Signature/Date	訓練員 簽名/日期 Officer's Signature/Date	訓練員 簽名/日期 Officer's Signature/Date	訓練員 簽名/日期 Officer's Signature/Date
具有下述能力 Be able to: 能夠與船上其他人員溝通有關基本 安全事宜 Communicate with other persons on board on elementary safety matters	William Sachs 2021.9.25 本人簽字 本人簽字需可清 楚辨識其姓名	林琨生 2022.6.15 本人簽字 本人簽字需可清 楚辨識其姓名	(建議簽署日期 48小時至1週 中有關熟悉船)	內,且應遵循公	
能夠瞭解安全資訊之符號、標記與 警報信號 Understand safety information symbols, signs and alarm signals	^{訓練員} 日期 本人簽字	訓練員 日期 本人簽字 本人簽字需可清	(建議簽署日期 且強烈建議應3 船舶或崗位規2	尊循公司管理程	船日期之初期 E序中有關熟悉

	本人簽字需可清 楚辨識其姓名	楚辨識其姓名	
知道如何處理下列情況 Know what to do if: 人員落水 A person falls overboard 偵測到火災或煙霧 Fire or smoke is detected 發出之火警或棄船警報 The fire or abandon ship alarm is sounded	訓練員 日期 本人簽字 本人簽字需可清 楚辨識其姓名	訓練員 日期 本人簽字 本人簽字需可清 楚辨識其姓名	(建議簽署日期應符合該員在船日期之初期 且強烈建議應遵循公司管理程序中有關熟悉 船舶或崗位規定)
具有下述能力 Be able to: 了解部署表,登艇站位置及緊急逃 生路線 Identify muster and embarkation stations and emergency escape routes	訓練員 日期 本人簽字 本人簽字需可清 楚辨識其姓名	訓練員 日期 本人簽字 本人簽字需可清 楚辨識其姓名	(建議簽署日期應符合該員在船日期之初期 且強烈建議應遵循公司管理程序中有關熟悉 船舶或崗位規定)
救生衣與浸水衣之位置與穿著 Locate and don life jackets and survival suits 啟動警報,並具有使用輕便滅火器 之基本知識 Raise the alarm and have a basic knowledge of the use of portable fire extinguishers	訓練員 日期 本人簽字 本人簽字需可清 楚辨識其姓名	訓練員 日期 本人簽字 本人簽字需可清 楚辨識其姓名	(建議簽署日期應符合該員在船日期之初期 且強烈建議應遵循公司管理程序中有關熟悉 船舶或崗位規定)
於遇到事故時採取立即行動或在得到船上進一步醫護救助前可能的緊急醫護處置 Take immediate action upon encountering an accident or other medical emergency before seeking further medical assistance on board	訓練員 日期 本人簽字 本人簽字需可清 楚辨識其姓名	訓練員 日期 本人簽字 本人簽字需可清 楚辨識其姓名	(建議簽署日期應符合該員在船日期之初期 且強烈建議應遵循公司管理程序中有關熟悉 船舶或崗位規定)

除了艙口蓋,能夠開關該船上一般之防火、風雨密及水密門 Close and open the fire, weather tight and watertight doors fitted in the particular ship, other than those for hull openings 訓練員日期

本人簽字

本人簽字需可清 楚辨識其姓名

訓練員日期

本人簽字

本人簽字需可清楚辨識其姓名

(建議簽署日期應符合該員在船日期之初期 且強烈建議應遵循公司管理程序中有關熟悉 船舶或崗位規定)

船上熟悉 SHIPBOARD FAMILIARISATION

依 STCW 國際公約規則 I/14 之規定 as required by Regulation 1/14 of the STCW Convention

必需利用時間,短期內熟悉你未來所需應用之設備及特定之當值、安全、環境與應急程序及執行職責所需之安排。由於安全與應急設備因船而異,應確定熟悉與你經常或應急有關之職責及所有船上之佈置、裝置、設備操作程序及船舶特性,在報到該船後,應儘早完成下列科目或職責。

船舶特性,在報到該船後,應儘早完成下列科目或職責。
You will be given a period of time during which you will have an opportunity to become acquainted with the equipment you will be using, and specific watchkeeping, safety, environmental and emergency procedures and arrangements required to perform your duties. The location of safety and emergency equipment varies from ship to ship. To be sure that you are familiar with your duties and all ship arrangements, installations, equipment procedures and ship characteristics that are relevant to your routine or emergency duties, you must complete the following tasks or duties as soon as possible on joining your ship.

船名 Ship's Name	中文或英文船 名擇一填寫	中文或英文船 名擇一填寫			
任務/職責 Task/Duty	訓練員 簽名/日期 Officer's	訓練員 簽名/日期 Officer's	訓練員 簽名/日期 Officer's	訓練員 簽名/日期 Officer's	訓練員 簽名/日期 Officer's
	Signature/Date	Signature/Date	Signature/Date	Signature/Date	Signature/Date

			- 10 -
當值程序與佈置 Watchkeeping	訓練員	訓練員	
procedures and arrangements: 熟悉駕駛台、瞭望台、艏艛、艉甲	日期	日期	(建議簽署日期應符合該員在船日期之初期
板、主甲板及其他工作區域	本人簽字	本人簽字	且強烈建議應遵循公司管理程序中
Visit bridge, look-out post,	本人簽字需可清	本人簽字需可清	有關熟悉船舶或崗位規定)
forecastle, poopdeck, main deck and other work areas	楚辨識其姓名	楚辨識其姓名	X2-//_
熟悉舵輪控制台、電話、電報與其	訓練員	訓練員	
他駕駛台設備及顯示器	日期	日期	(建議簽署日期應符合該員在船日期之初期
Get acquainted with steering	本人簽字	本人簽字	且強烈建議應遵循公司管理程序中
controls, telephones, telegraphs and other bridge equipment and			有關熟悉船舶或崗位規定)
displays	本人簽字需可清	本人簽字需可清	
	楚辨識其姓名	楚辨識其姓名	
在監督下,操作例行作業之設備 Activate, under supervision,			
equipment to be used in routine			
duties	訓練員	訓練員	
安全與應急程序 Safety and	日期	日期	(建議簽署日期應符合該員在船日期之初期
emergency procedures:	本人簽字	本人簽字	且強烈建議應遵循公司管理程序中
對公司之火災與安全規定能予以解			有關熟悉船舶或崗位規定)
讀並以實作證明瞭解 Read and demonstrate an	本人簽字需可清	本人簽字需可清	7 17 18 18 18 18 18 18 18 18 18 18 18 18 18
understanding of your	楚辨識其姓名	楚辨識其姓名	
Company's Fire and Safety			
Regulations			
示範能夠識別下列警報信號	訓練員	訓練員	
Demonstrate recognition of the	日期	日期	(建議簽署日期應符合該員在船日期之初期
alarm signals for: 火警 FIRE	+ 1 ** -	+ 1 45 -	且強烈建議應遵循公司管理程序中
應急 EMERGENCY	本人簽字	本人簽字	有關熟悉船舶或崗位規定)
棄船 ABANDON SHIP	本人簽字需可清	本人簽字需可清	

確定醫療與急救設備之位置	楚辨識其姓名	楚辨識其姓名	
Locate medical and first aid equipment			
確定滅火設備之位置:警報作動	訓練員	訓練員	
點、警鈴、滅火器、消防栓、太平	日期	日期	(建镁ダ罗口彻底然人达吕太如口彻之初彻
斧與水龍帶			(建議簽署日期應符合該員在船日期之初期
Locate firefighting equipment alarm activating points, alarm bells,	本人簽字	本人簽字	且強烈建議應遵循公司管理程序中
extinguishers, hydrants, fire axes and	本人簽字需可清	本人簽字需可清	有關熟悉船舶或崗位規定)
hoses	楚辨識其姓名	楚辨識其姓名	
確定火箭拋繩器之位置	訓練員	訓練員	
Locate rocket line throwing apparatus	日期	日期	(建議簽署日期應符合該員在船日期之初期
確定遇險火箭、紅光火焰及其他煙	+ 1 & -	+ 1 55	且強烈建議應遵循公司管理程序中
火信號彈之位置	本人簽字	本人簽字	有關熟悉船舶或崗位規定)
Locate distress rockets, flares	本人簽字需可清	本人簽字需可清	角 鄭 然 芯 加 州 以 岡 (
and other pyrotechnics	楚辨識其姓名	楚辨識其姓名	
確定呼吸器及消防員裝具等之位置	訓練員	訓練員	
Locate breathing apparatus and	日期		
firefighter's outfits etc	口规	日期	(建議簽署日期應符合該員在船日期之初期
確定 EPIRB、SART 及攜帶式無線	本人簽字	本人簽字	且強烈建議應遵循公司管理程序中
電對講機之位置		本人簽字需可清	有關熟悉船舶或崗位規定)
Locate EPIRB, SART and walkie-	本人簽字需可清	本八競子語 引 / / / / / / / / / / / / / / / / / /	
talkie radios	人上为下明,大人工	/E7/TIPM///XE1	
確定應急逃生呼吸設施之位置			(建議簽署日期應符合該員在船日期之初期
Locate Emergency Escape Breathing	訓練員	訓練員	且強烈建議應遵循公司管理程序中
Devices (EEBDs)	日期	日期	有關熟悉船舶或崗位規定)
, ,			方物がある方面の両面が

確定二氧化碳瓶室及泵間、液貨艙 與貨艙內滅火設備的控制閥位置 Locate C02 bottle room, and control valves for smothering apparatus in pump rooms, cargo tanks and holds	本人簽字 本人簽字需可清 楚辨識其姓名	本人簽字 本人簽字需可清	
確定應急泵之位置並瞭解其操作方法 Locate and understand the operation of the emergency pump 環境保護 Environmental protection: 熟悉處理廚餘、垃圾及其他廢棄物之程序 Get acquainted with the procedure for handling garbage, rubbish and other wastes 垃圾集押器或其他適當裝置之使用 The use of garbage compactor or other equipment as appropriate	訓練員 日期 本人簽字 本人簽字需可清 本人簽字需可清 楚辨識其姓名	訓練員 日期 本人簽字 本人簽字需可清 本分簽字需可清 楚辨識其姓名	(建議簽署日期應符合該員在船日期之初期 且強烈建議應遵循公司管理程序中 有關熟悉船舶或崗位規定)

救生艇與召集站 BOAT AND MUSTER STATIONS

在下表之適當欄內填入救生艇與消防召集站暨其他細節(時間;任務)。呈請船長於該欄內簽署。

Insert Boat and Fire Muster Stations and other details in the appropriate space. Ask the master to sign in the space provided.

救生艇召集站 Boat Muster Station		救生操演時間 不需要同於消		救生操演時間 不需要同於消		
消防召集站 Fire Muster Station	防操演但均須 船長簽署認證	防操演但均須 船長簽署認證	防操演但均須 船長簽署認證	防操演但均須 船長簽署認證		
船長正楷姓名 Master's Name BLOCK CAPITALS	正楷名字	正楷名字	正楷名字	正楷名字		
船長簽名 Master's Signature	船長本人簽名	船長本人簽名	船長本人簽名	船長本人簽名	本人簽字需可清楚辨識其姓名	
日期 Date	操演當天	操演當天	操演當天	操演當天		

第四部分 船舶規格 SECTION 4 PARTICULARS OF SHIPS

瞭解所服務船舶為訓練重點,為協助你符合此重要規定,當你在各船上時應將下列規格予以記錄。對照先前所服務 之船舶,在申請適任證書之口試與評估中,這方面的內容有可能會被詢問。

It is an essential feature of your training that you obtain knowledge of the ships on which you serve. To assist you in meeting this important requirement the following particulars are to be recorded during the time spent on each ship. Questions on this subject, with particular reference to your last ship, are likely to be put to you during an oral examination and assessment for your certificate of competency.

第一艘船 FIRST SHIP

船名 MV/SS:	IMO 號碼 IMO Number:	呼號 Call Sign:
船舶規格與容量 Dimensions and Capacities	柴油容量 DO capacitym3/ton	最大輸出量 Max electrical output
全長 Length Over All	重燃油消耗率 HFO consumptionton/day	錨 Anchors
m	± man man in a consumption to the day	海 Alichors
船寬 Breadthm	紫油消耗率 DO consumptionton/day	左錨 Porttonnes
船深 Depthm	航速 Service speedknots	右錨 Starboardtonnes
夏季吃水 Summer draftm	淡水機 Fresh water generatorton/day	貨物裝卸機具 Cago Handling Gear
夏季乾舷 Summer freeboardm	輔機 Auxiliary Machinery	吊桿/起重機 Derricks/cranes (數量與安全負荷量
總噸位 Gross tonnage	has like to the Canadian Const True	No. and SWL)
tonnes	舵機系統 Steering Gear Type	tonnes
載重量 Deadweighttonnes	螺旋槳 Propeller(Type/no. of blades/diameter)	絞纜機 Winches(型式 types)
軟里里 Deadweighttonnes	螺旋桨 Propener(Type/no. of blades/drameter)	tonnes
輕載排水量 Light displacementtonnes		押水艙 Ballast tanks(數量 No.)
散裝/液體容積 Grain/Liquid capacitytonnes	横車 Thruster(no./type)	貨艙 Cargo tanks(數量 No.)
主機 Main Engine	發電機 Generator (數量 No./ 型式 Type)	貨泵 Cargo pumps (數量 No.)
引擎 Engine(製造廠 Maker)		泵輸出量 Pumping ratecbm/Hrs
21 数 Fundament (到上 4 mm)	輸出功率 Output	管路 Pipelines (口徑 sizes)
引擎 Engine (型式 type)	kW	官路 Pipeimes (日径 Sizes)
額定最大連續輸出 (MCR)	文 帝 ld 习 符 ld 10	III上齿松山里 Trung and noting
kW	發電機引擎燃料 Generator engine fuel:	型式與輸出量 Type and rating
在每分鐘 at轉	14 #E Code	tournes (le com
(rpm)	種類 Category	tonnes/hour
鍋爐(製造廠/型式)Boiler(maker/type)	每日耗油量 Fuel consumption per dayT	其他裝卸貨設備 Other cargo equipment
	緊急發電機 Emergency generator engine(型式 type)	
重燃油容量 HFO capacity		
1115, 1011		

滅火設備 Fire Fighting Equipment	救生設備 Lifesaving Equipment	
緊急救火泵 Emergency fire pump	救生艇(數量/容量/引擎)Lifeboats (No./cap/engine)	
(型式/容量 type/cap.)		
滅火器(數量與容量)	救生筏(數量/容量)Life-rafts(No./capacity)	
型式 Types: 水 Water 公升 liters		
泡沫 Foam 公升	救生圈 Lifebuoys (數量 No.)	
liters	. / *	/ k /
乾粉 Dry powder 公斤 kg	求生衣 Survival Suits (數量 No. /型式 type)	
二氧化碳 CO ₂ 公斤		
kg	7/1-7//	
消防水龍帶 Fire hoses(數量與口徑 No. and size)	逃生呼吸組(數量/型式)EEBD(No./type)	
mm		
呼吸器 Breathing apparatus (數量/製造廠 no/make)		

船舶規格資料請尋找 particulars, 船圖, 證書等資料蒐集完整

第二艘船 SECOND SHIP

船名 MV/SS:		IMO 號碼 IMO Number:	呼號 Call Sign:
船舶規格與容量 Dimensions and Capacities		横車 Thruster(no./type)	救生設備 Lifesaving Equipment
全長 Length Over All		發電機 Generator (數量 No./ 型式 Type)	救生艇(數量/容量/引擎) Lifeboats
m			(No./cap/engine)
船寬 Breadth	m		
船深 Depth	m	輸出功率 Output kW	救生筏(數量/容量)Life-rafts(No./capacity)
夏季吃水 Summer draft	<u>_</u> m	發電機引擎燃料 Generator engine fuel:	<u> </u>
夏季乾舷 Summer freeboard	m	種類 Category	救生圈 Lifebuoys (數量 No.)
總噸位 Gross tonnage	_	每日耗油量 Fuel consumption per dayT	求生衣 Survival Suits (數量 No./型式 type)
tonnes		安日和油量 Fuel consumption per day	
載重量 Deadweight	tonnes	緊急發電機 Emergency generator engine(型式 type)	
輕載排水量 Light displacement	_tonnes		逃生呼吸組(數量/型式)EEBD(No./type)
散裝/液體容積 Grain/Liquid capacity	_tonnes	最大輸出量 Max electrical output	
主機 Main Engine		錨 Anchors	滅火設備 Fire Fighting Equipment
引擎 Engine(製造廠 Maker)		左錨 Porttonnes	緊急救火泵 Emergency fire pump
引擎 Engine (型式 type)		右錨 Starboardtonnes	(型式/容量 type/cap.)
額定最大連續輸出(MCR)		貨物裝卸機具 Cago Handling Gear	滅火器(數量與容量)
kW		A WAR IN TAILY CARGO FIRMANING COMP	(M)/(B) (M) = 3 (T) = 1
在每分鐘 at轉 (rpm)		吊桿/起重機 Derricks/cranes(數量與安全負荷量	型式 Types:水 Water 公升 liters
鍋爐(製造廠/型式)Boiler(maker/type)		No. and SWL)tonnes	泡沫 Foam 公升 liters
		絞纜機 Winches(型式 types)tonnes	乾粉 Dry powder 公斤 kg
重燃油容量 HFO capacity m3/ton	- /	押水艙 Ballast tanks (數量 No.)	二氧化碳 CO ₂ 公斤 kg
柴油容量 DO capacity	m3/ton	貨艙 Cargo tanks(數量 No.)	消防水龍帶 Fire hoses (數量與口徑 No. and size)

重燃油消耗率 HFO consumptionton/day	貨泵 Cargo pumps(數量 No.)	mm
紫油消耗率 DO consumptionton/day	泵輸出量 Pumping ratecbm/Hrs	呼吸器 Breathing apparatus (數量/製造廠 no/make)
航速 Service speedknots	管路 Pipelines (口徑 sizes)	
淡水機 Fresh water generatorton/day	型式與輸出量 Type and rating	
輔機 Auxiliary Machinery	tonnes/hour	
舵機系統 Steering Gear Type	其他裝卸貨設備 Other cargo equipment	
螺旋槳 Propeller(Type/no. of blades/diameter)		71 /

船舶規格資料請尋找 particulars, 船圖, 證書等資料蒐集完整 第三艘船 THIRD SHIP

船名 MV/SS:	IMO 號碼 IMO Number:	呼號 Call Sign:
船舶規格與容量 Dimensions and Capacities	横車 Thruster(no./type)	救生設備 Lifesaving Equipment
全長 Length Over All	發電機 Generator (數量 No. / 型式 Type)	救生艇(數量/容量/引擎)Lifeboats
m	教电機 Generator (数里 No./ 空式 Type)	(No./cap/engine)
船寬 Breadthm		
船深 Depthm	輸出功率 Output	救生筏(數量/容量)Life-rafts(No./capacity)
和水 DCptiiiii	kW	
夏季吃水 Summer draftm	發電機引擎燃料 Generator engine fuel:	
夏季乾舷 Summer freeboardm	種類 Category	救生圈 Lifebuoys (數量 No.)
總噸位 Gross tonnage	每日耗油量 Fuel consumption per dayT	求生衣 Survival Suits (數量 No. /型式 type)
tonnes	中 日 和 里 I der consumption per day1	
載重量 Deadweighttonnes	緊急發電機 Emergency generator engine(型式 type)	
輕載排水量 Light displacementtonnes		逃生呼吸組(數量/型式)EEBD(No./type)
散裝/液體容積 Grain/Liquid capacitytonnes	最大輸出量 Max electrical output	
主機 Main Engine	錨 Anchors	滅火設備 Fire Fighting Equipment
引擎 Engine (製造廠 Maker)	左錨 Porttonnes	緊急救火泵 Emergency fire pump
引擎 Engine(型式 type)	右錨 Starboardtonnes	(型式/容量 type/cap.)

額定最大連續輸出(MCR) kW	貨物裝卸機具 Cago Handling Gear	滅火器 (數量與容量)
在每分鐘 at轉 (rpm)	吊桿/起重機 Derricks/cranes (數量與安全負荷量	型式 Types: 水 Water 公升 liters
鍋爐(製造廠/型式)Boiler(maker/type)	No. and SWL)tonnes	泡沫 Foam 公升 liters
	絞纜機 Winches (型式 types)tonnes	乾粉 Dry powder 公斤 kg
重燃油容量 HFO capacity m3/ton	押水艙 Ballast tanks (數量 No.)	二氧化碳 CO ₂ 公斤 kg
柴油容量 DO capacitym3/ton	貨艙 Cargo tanks (數量 No.)	消防水龍帶 Fire hoses (數量與口徑 No. and size)
重燃油消耗率 HFO consumptionton/day	貨泵 Cargo pumps (數量 No.)	mm
紫油消耗率 DO consumptionton/day	泵輸出量 Pumping ratecbm/Hrs	呼吸器 Breathing apparatus (數量/製造廠no/make)
航速 Service speedknots	管路 Pipelines (口徑 sizes)	
淡水機 Fresh water generatorton/day	型式與輸出量 Type and rating	
輔機 Auxiliary Machinery	tonnes/hour	
舵機系統 Steering Gear Type	其他裝卸貨設備 Other cargo equipment	
螺旋槳 Propeller(Type/no. of blades/diameter)		
4. 4. 10.14 - 10.14 - 11.	List To have the tele -to had the the in-	±6

船舶規格資料請尋找 particulars, 船圖, 證書等資料蒐集完整

第四艘船 FOURTH SHIP

船名 MV/SS:	IMO 號碼 IMO Number:	呼號 Call Sign:
船舶規格與容量 Dimensions and Capacities	横車 Thruster(no./type)	救生設備 Lifesaving Equipment
全長 Length Over All	發電機 Generator (數量 No. / 型式 Type)	救生艇(數量/容量/引擎)Lifeboats
m	發电機 Generator (数重 No. / 至式 Type)	(No./cap/engine)
船寬 Breadthm		
611 75 Double	輸出功率 Output	救生筏(數量/容量)Life-rafts(No./capacity)
船深 Depthm	kW	

夏季吃水 Summer draft	m	發電機引擎燃料 Generator engine fuel:			
夏季乾舷 Summer freeboard	<u>m</u>	種類 Category		救生圈 Lifebuoys (數量 No.)
總噸位 Gross tonnagetonnes		每日耗油量 Fuel consumption per day_	T	求生衣 Survival Suits(數量	No./型式 type)
載重量 Deadweight	tonnes	緊急發電機 Emergency generator engine	(型式 type)	7	
輕載排水量 Light displacement	tonnes		<u> </u>	逃生呼吸組(數量/型式) E	EBD (No./type)
散裝/液體容積 Grain/Liquid capacity_	tonnes	最大輸出量 Max electrical output			
主機 Main Engine		錨 Anchors)	滅火設備 Fire Fighting Equip	ment
引擎 Engine (製造廠 Maker)		左錨 Port	tonnes	緊急救火泵 Emergency fire p	ump
引擎 Engine (型式 type)		右錨 Starboard	tonnes	(型式/容量 type/cap.)	
額定最大連續輸出(MCR) kW		貨物裝卸機具 Cago Handling Gear	1	滅火器(數量與容量)	
在每分鐘 at (rpm)	轉	吊桿/起重機 Derricks/cranes (數量與安	全負荷量	型式 Types:水 Water	公升 liters
鍋爐(製造廠/型式)Boiler(maker/ty	ype)	No. and SWL)		泡沫 Foam liters	公升
		絞纜機 Winches(型式 types)tonnes	<u> </u>	乾粉 Dry powde	er 公斤 kg
重燃油容量 HFO capacity m3/ton		押水艙 Ballast tanks (數量 No.)		二氧化碳 CO ₂ kg	公斤
柴油容量 DO capacity	m3/ton	貨艙 Cargo tanks (數量 No.)		消防水龍帶 Fire hoses (數量	與口徑 No. and size)
重燃油消耗率 HFO consumption	ton/day	貨泵 Cargo pumps(數量 No.)			mm
紫油消耗率 DO consumption	ton/day	泵輸出量 Pumping rate	cbm/Hrs	呼吸器 Breathing apparatus (no/make)	數量/製造廠
航速 Service speed	knots	管路 Pipelines (口徑 sizes)			
淡水機 Fresh water generator	ton/day	型式與輸出量 Type and rating			
輔機 Auxiliary Machinery		t	connes/hour		
舵機系統 Steering Gear Type		其他裝卸貨設備 Other cargo equipment			
螺旋槳 Propeller(Type/no. of blades/dia	imeter)				

船舶規格資料請尋找 particulars, 船圖, 證書等資料蒐集完整

第五艘船 FIFTH SHIP

船名 MV/SS:	IMO 號碼 IMO Number:	呼號 Call Sign:
船舶規格與容量 Dimensions and Capacities	横車 Thruster(no./type)	救生設備 Lifesaving Equipment
全長 Length Over All	發電機 Generator (數量 No./ 型式 Type)	救生艇(數量/容量/引擎)Lifeboats
m	發电機 Generator (数里 No. / 至式 Type)	(No./cap/engine)
船寬 Breadthm		<u></u>
船深 Depthm	輸出功率 Output kW	救生筏(數量/容量)Life-rafts(No./capacity)
夏季吃水 Summer draftm	發電機引擎燃料 Generator engine fuel:	
夏季乾舷 Summer freeboardm	種類 Category	救生圈 Lifebuoys (數量 No.)
總噸位 Gross tonnage	每日耗油量 Fuel consumption per dayT	求生衣 Survival Suits (數量 No. /型式 type)
tonnes		
載重量 Deadweighttonnes	緊急發電機 Emergency generator engine(型式 type)	
輕載排水量 Light displacementtonnes		逃生呼吸組(數量/型式)EEBD(No./type)
散裝/液體容積 Grain/Liquid capacitytonnes	最大輸出量 Max electrical output	
主機 Main Engine	錨 Anchors	滅火設備 Fire Fighting Equipment
引擎 Engine(製造廠 Maker)	左錨 Porttonnes 右錨 Starboardtonnes	緊急救火泵 Emergency fire pump
引擎 Engine (型式 type)	右錨 Starboardtonnes	(型式/容量 type/cap.)
額定最大連續輸出(MCR)	 貨物裝卸機具 Cago Handling Gear	 滅火器(數量與容量)
kW		. ,
在每分鐘 at轉	吊桿/起重機 Derricks/cranes (數量與安全負荷量	型式 Types:水 Water 公升 liters
(rpm)		
鍋爐(製造廠/型式)Boiler(maker/type)	No. and SWL)	泡沫 Foam 公升
	tonnes	liters
	絞纜機 Winches (型式 types)	乾粉 Dry powder 公斤 kg
/	tonnes	

重燃油容量 HFO capacity	hp 1, 6A D-114411 (二氧化碳 CO ₂ 公斤
m3/ton	押水艙 Ballast tanks(數量 No.)	kg
柴油容量 DO capacitym3/ton	貨艙 Cargo tanks (數量 No.)	消防水龍帶 Fire hoses(數量與口徑 No. and size)
重燃油消耗率 HFO consumptionton/day	貨泵 Cargo pumps (數量 No.)	mm
紫油消耗率 DO consumptionton/day	泵輸出量 Pumping ratecbm/Hrs	呼吸器 Breathing apparatus (數量/製造廠no/make)
航速 Service speedknots	管路 Pipelines (口徑 sizes)	47.1
淡水機 Fresh water generatorton/day	型式與輸出量 Type and rating	
輔機 Auxiliary Machinery	tonnes/hour	/
舵機系統 Steering Gear Type	其他裝卸貨設備 Other cargo equipment	
螺旋槳 Propeller(Type/no. of blades/diameter)		
	~x! \/_/	

船舶規格資料請尋找 particulars, 船圖, 證書等資料蒐集完整

第五部分 訓練科目資訊及應予達成之適任性 SECTION 5 INFORMATION ON TRAINING TASKS AND COMPETENCES TO BE ACHIEVED

本部分明列訓練科目的細節,學員應充分的利用並在海上期間完成之。學員可在下列各頁內看到應進行之科目與職責。完成它們將讓你符合適任性的要求。

This section of your Record Book gives details of the training tasks that you should follow to make best use of your time at sea. You will see that each page lists the tasks or duties that you should undertake. Completion of these will lead to meeting the competences.

你的進度與表現應由同部門較自身高階之甲級船員予以審查後,於該頁之右側陰影空格內簽入姓名及日期,表示你在該項目的表現已符合評估標準並證明為適任。該甲級船員並可在需要改進之部分作出建議。茲將 STCW 章程對助理級輪機當值及輪機助理員適任性表列之要求列出如次:

A senior officer should review your progress and indicate, with Signature and date in the blue box on the right hand side of the page, that your performance is considered to meet the Criteria for Evaluation and that competence has been demonstrated in that element. The officer may offer advice on areas in which improvement is necessary. The competences required by ratings forming part of an engineering watch and able seafarer engine as tabulated in the STCW Code are listed below. This Section is organised as follows:

構成有人值守機艙當值一部分或指派在定期無人值守機艙執行職責乙級船員之適任性 (STCW 章程表 A-III/4)

COMPETENCES FOR RATINGS FORMING PART OF A WATCH IN A MANNED ENGINE-ROOM OR DESIGNATED TO PERFORM DUTIES IN A PERIODICALLY UNMANNED ENGINE-ROOM (STCW CODE TABLE A-III/4)

助理級-輪機工程 Marine engineering at the Support Level (第 32 頁)

- 1. 助理級輪機當值職責之例行值班 Carry out a watch routine appropriate to the duties of a rating forming part of an engine-room watch
- 2. 維持正確水位及蒸汽押力(值鍋爐班者) Maintain the correct levels and steam pressures (for keeping a boiler watch)
- 3. 操作緊急設備及應用緊急程序 Operate emergency equipment and apply emergency procedures

在有人值守機艙或指派在定期無人值守機艙執行職責輪機助理員發證之適任性(STCW 章程表 A-III/5)

COMPETENCES FOR CERTIFICATION OF RATINGS AS ABLE SEAFARER ENGINE IN A MANNED ENGINE-ROOM OR DESIGNATED TO PERFORM DUTIES IN A PERIODICALLY UNMANNED ENGINE-ROOM (STCW CODE TABLE A-III/5)

助理級-輪機工程 Marine engineering at the Support Level (第51頁)

- 4. 致力於安全輪機當值 Contribute to a safe engineering watch
- 5. 致力於機艙當值之監控 Contribute to the monitoring and controlling of an engine-room watch
- 6. 致力於加燃油與駁油作業 Contribute to fuelling and oil transfer operations
- 7. 致力於艙底水與押載水作業 Contribute to bilge and ballast operations
- 8. 致力於設備與機械之安全操作Contribute to the safe operation of equipment and machinery

助理級-電機、電子與控制工程 Electrical, Electronic And Control Engineering at the Support Level(第 69 頁)

9. 電機設備之安全使用 Safe use of electrical equipment

助理級-保養及維修 Maintenance and Repair at the Support Level (第 73 頁)

10. 致力於船上之保養及維修 Contribute to shipboard maintenance and repair

助理級-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 Support Level(第 82 頁)

- 11. 致力於物料處理 Contribute to the handling of stores
- 12. 應用預防措施並致力於防止海洋環境之汙染 Apply precautions and contribute to the prevention of pollution of the marine environment
- 13. 應用職業健康與安全之預防措施 Apply occupational health and safety precautions

如何填寫訓練科目及達成適任性之範例

Example of How to Complete the List of Training Tasks and Competences Achieved

項次 Ref No	訓練 Training			適任性 Compet	ence
1	適任 Competence: 助理級輪機當值職責之例行值5 Carry out a watch routine appropriate to his duties o of an engine-room watch	評估標準 Criteria for Evaluation	Demonst 同部門較自 甲級船員簽 Asses (Signature	身高階之 名/日期 sor	
1.1	正確使用機艙所使用之術語、機器與設備之名稱 Use correct terms in machinery spaces and names of mac	語文溝通清晰簡明,對當值資料或 說明不能明白瞭解時能夠尋求當值 輪機員之意見或說明 Communications are clear and concise and advice or clarification is sought from the officer of the watch where watch information or instructions are not clearly understood	2/E 劉七	31/08/14	
	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 Task Con 施訓者(簽, Instruc (Signature	npleted 名/日期) etor
.1	依輪機日誌、引擎操縱日誌及其他紀錄簿之指導記錄資訊 Record information, as instructed, in the engine-room log book, engine movements log and other record books	MM 孫八 25/08/14	各欄位填寫清晰,但多注意讀 數、計算及抄寫。多比對正常之 情況即可立即找出功能失常之 處	2/E 劉七	29/08/14
.2	e eserve simulated mermini e personal e unipersonal es pressonale	MM 孫八 26/08/14			
.3	示範正確使用機器空間所使用之術語及機器與設備之名稱 Demonstrate correct use of terms used in the engine-room and names of machinery, equipment and tools	2/E			

- (1) 簽名部分含職級與中文正楷全名,如為外籍船員請簽英文正楷全名。
- (2) 先完成各別細項(如上述1.1.1~1.1.3) 並分別由同部門較自身高階之船員作為施訓者簽署,如有需改進處於其右方空白欄位填寫需改進事項,並於完成再次訓練後簽署。
- (3) 各別細項皆簽署完成後,請同部門較自身高階之甲級船員於大項 (如上述1.1) 簽署適任性證明。

- 深色陰影部分之適任性(此例為「助理級輪機當值職責之例行值班」)係直接摘自STCW章程之本文。應於學員海勤資歷期末予以記錄,以認定其能儘可能適任此等適任性。
 - The competence shaded blue (in this case 'carry out a watch routine appropriate to his duties of a rating forming part of an engine-room watch') is directly taken from the text of the STCW Code. By the end of the period of seagoing service the trainee should be recorded as being considered competent in as many of these competences as possible.
- 主要之科目(此例為1.1「依輪機日誌、引擎操縱日誌及其他紀錄簿之指導記錄資訊」)經再分項列於該頁訓練科目或職責之左側。學員應儘可能完成此等訓練科目。然可能因船舶之設備、貨物或航程之情況,此等所有之科目並不期望學員在任務前能被認為足以適任。應予注意者某些適任性之技能與知識可能需要岸上訓練時取得。
 - The primary tasks (in this case 1.1 'Record information, as instructed, in the engine-room log book, engine movements log and other record books) is sub-divided into training tasks or duties on the left hand side of the page. The trainee should complete as many of these training tasks as possible. However, in view of the likely equipment, cargo or voyage pattern of the ship, it is not expected that all these tasks will be completed before the trainee is considered competent in the primary task. It should be noted that some of the skills and knowledge that underpin the competences may well have been obtained during shore based training.
- 各訓練科目之完成提供兩空格供施訓者記錄。此並不意謂該各科目應完成兩次,依該施訓者之意見,一次亦可。
 - Space is provided to record completion of each training task twice by the instructor. This does not mean that each task must be completed twice if, in the opinion of the instructor, once is considered sufficient.
- 施訓者並不必要為指派訓練員。
- Instructor does not necessarily have to be the designated training officer.
- 船長或同部門較自身高階之甲級船員在淡色陰影部分空格前記錄"適任性證明"時,得對改進部分作建議。為此目的,在評估標準之下方留有較大之空格,以便填寫。如此等主要科目之適任性證明為適任,則應由船長或同部門較自身高階之甲級船員,在評估標準下方陰影部分靠右側之適當空格簽署,並加註日期(年月日)。 Before 'Competence Demonstrated' is recorded (in the light blue box), the master or designated on board training officer may record any
 - appropriate advice about areas for improvement. A large blank space for this purpose is provided beneath the criteria for evaluation. As competence in these primary tasks is demonstrated, the appropriate light blue box next to the criteria for evaluation, on the far right hand side of the page, should be signed and dated (day, month and year) by the master or designated training officer on board the ship to attest that competence has been demonstrated.
- 當船長或同部門較自身高階之甲級船員確認學員能在無監督之下執行其職責或該學員在執行其職責時亦可監督 其他人員時,始可簽署「適任性證明」欄位。
 - A trainee's attainment of the competence should only be recorded as 'Competence Demonstrated' when the master or designated training officer is satisfied that the trainee can perform the duty without supervision or, where appropriate, that the trainee is able to supervise others in the performance of the duty.
- 當記錄「適任性證明」時應仔細考慮在該頁右側內之評估標準,亦為航海人員與良好安全工作實踐之最佳方法。

When recording 'Competence Demonstrated', careful account should be taken of the criteria for evaluation contained on the right hand side of the page, as well as the best practices of seafarers and good safe working practices.



第六部分 助理級輪機當值之科目 SECTION 6 TASKS FOR SUPPORT LEVEL RATINGS FORMING PART OF AN ENGINEERING WATCH

申請發證為助理級輪機當值者可以單獨完成本部分,或申請發證為輪機助理員者可以合併完成第七部分之訓練。 This section can be completed on its own for certification as ratings forming part of an engineering watch, or can be completed in combination with the training set out in Section 7 for certification as an Able Seafarer Engine.

在本部分訓練中包含申請發證為助理級輪機當值之要求,STCW 章程第 A-III/4 節所含之適任性僅限於助理級輪機工程專長。

The training in this section of this record book covers the requirement for the certification of ratings forming part of an engineering watch watch. The competences covered by Section A-III/4 of the STCW Code are limited to the function Engineering at the Support Level.

STCW 規則 III/4 STCW Regulation III/4

構成有人值守機艙當值一部分或指派在定期無人值守機艙執行職責乙級船員發證之強制性最低要求

Mandatory minimum requirements for certification of ratings forming part of a watch in a manned engine-room or designated to perform duties in a periodically unmanned engine-room

- 1. 凡在主機推進動力 750 瓩以上之構成有人值守機艙當值一部分或指派在定期無人值守機艙執行職責乙級船員,除正在接受訓練之乙級船員及在當值時其職責屬非技術性之乙級船員外,應經適當發證以執行此職責。 Every rating forming part of an engine-room watch or designated to perform duties in a periodically unmanned engine-room on a seagoing ship powered by main propulsion machinery of 750kW propulsion power or more, other than ratings under training and ratings whose duties are of an unskilled nature, shall be duly certificated to perform such duties.
- 2. 凡申請發證者應:

Every candidate for certification shall:

- .1 年滿 16 歲; be not less than 16 years of age;
- .2 業已完成: have completed:
- .2.1 認可之海勤資歷,包括至少 6 個月之訓練及經歷;或 approved seagoing service including not less than six months of training and experience, or
- .2.2 上船前或在船上之特殊訓練,包括至少2個月經認可之海勤資歷;及

special training, either pre-sea or on board ship, including an approved period of seagoing service which shall not be less than two months; and

- .3 符合 STCW 章程第 A-III/4 節所述之適任標準。
 meet the standard of competence specified in section A-III/4 of the STCW Code.
- 3. 第2.2.1 及2.2.2 目所要求之海勤資歷、訓練及經歷,應與輪機部門當值功能相關,並涉及在適格之輪機甲級船員或適格之乙級船員直接監督下所執行之職責。

The seagoing service, training and experience requirement by subparagraphs 2.2.1 and 2.2.2 shall be associated with engine-room watchkeeping functions and involve the performance of duties carried out under the direct supervision of a qualified engineer officer or a qualified rating.

艙面乙級船員填寫本 ISF 訓練紀錄簿者,應確已採取構架之方法以使該學員首先能適格為助理級輪機當值。合併完成第六部分與第七部分者可協助提早發證為輪機助理員。

Completion of the ISF Training Record Book for deck ratings should ensure a structured approach is undertaken so that trainees can first qualify as ratings forming part of an engineering watch. However, completing Sections 6 and 7 together might assist in early certification as an Able Seafarer Engine.

學員可利用第八部分之科目概要表標出其所完成船上訓練科目。

A Task Summary Chart, which trainees can tick off as they complete their on board training tasks, can be found in Section 8.

專長 FUNCTION: 助理級-輪機工程

MARINE ENGINEERING AT THE SUPPORT LEVEL

項次 Ref No	訓練 Training			
1	適任 Competence 助理級輪機當值職責之例 瞭解指令與當值職責有關 Carry out a watch routine appropria rating forming part of an engine-roor orders and be understood in matters re duties	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)	
1.1	正確使用機艙所使用之術語、機器與設Use correct terms in machinery spaces and names of machinery and equipment	語文溝通清晰簡明,對資料或說明並不能明白瞭解時會尋求當值輪機員之意見或說明 Communications are clear and concise and advice or clarification is sought from the officer of the watch where watch information or instructions are not clearly understood	待[1.1.1] 到 [1.1.3] 皆完成後,由同一船舶且同部門不低於擬申請發證職務之甲級船員簽署並押上日期簽署者必須在附件基本資料處留下資料	
	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	依指示將活動寫入輪機日誌、機器作動日誌 及其他紀錄簿 Record information, as instructed, in the engine-room log book, engine movements log and other record books	施訓者完成認可後 簽名押日期	如果對學員動作不滿意,應(擇日)重做到滿意再簽署。	

.2	觀察及記錄正常之溫度與押力 Observe and note normal operating temperatures/pressures					
.3	能正確使用機艙所使用之術語及機器與設備之名稱 Demonstrate correct use of terms used in the engine-room and names of machinery, equipment and tools					
1.2	執行機艙當值程序 Conduct engine-room watchkeeping procedures		語文溝通清晰簡明,對當料或說明並不能明白瞭解時會尋求當值輪機員之意見或說明。依公認之原則及程序值班、交班及接班 Communications are clear and concise and advice or clarification is sought from the officer of the watch where watch information or instructions are not clearly understood. Maintenance, handover and relief of the watch is in conformity with accepted principles and procedures	待 [1.2.1] 到 [1.2. 後,由同一船船 不低於與員簽署並 簽署者必須在所 留下資	且同部門 證職務之 押上本資 件基本資	
.1	協助主機備便開航 Assist with preparing machinery for a sea passage	施訓者完成認可	後	加里料與吕私从丁汝安, 麻(埋	口) 丢做到世辛 西忽	き撃っ
.2	協助檢查制動空氣押縮機並啟動空氣系統 Assist with checking the starting air compressor and prepare starting air systems	簽名押日期		如果對學員動作不滿意,應(擇日)重做到滿意再簽署。		了有 °
.3	協助輪機甲級船員之下列職責: Assist with the duties of an engineer officer on: 機艙當值 Seagoing watches					
.4	港口/錨泊當值 Port/anchor watches					
.5	接步接班與交班 Accept and handover the watch duties in a timely manner					

.6	在監督下執行所有之例行當值職責,檢查自動控制與監測系統之正確功能 Under supervision carry out all routine watchkeeping duties, checking the correct functioning of automatic control and monitoring systems	施訓者完成認可後 簽名押日期	如果對學員動作不滿意,應(擇日)重做到滿意再簽署。
.7	如有必要予以調整 Make adjustments as found necessary		
.8	在監督下清潔主機冷卻水吸入口 Under supervision clean main engine cooling water suctions	7.	~
.9	瞭解吸入口水位高低之需求及其變更之程序 Understand the need for high and low level suctions and changeover procedures		
.10	檢查高押燃油管護套及附裝之漏洩指示器 Check efficiency of sheathing on high-pressure fuel pipes and associated leak-off indicators		
.11	執行例行檢查並予保持冷卻水系統櫃與鍋爐 熱井於正確水位 Perform routine checks and top ups to maintain cooling water system tanks and boiler hot well at the correct levels		
.12	執行例行檢查並予保持燃油與潤滑油系統櫃於正確油位 Perform routine checks and top ups to maintain fuel oil and lube oil system tanks at the correct levels		
.13	在監督下沖排洩掃氣室積水 Under supervision blow down scavenge drains		
.14	確使自動排水之功能正常 Ensure that automatic drains are functioning correctly		
.15	協助鍋爐水檢測與處理 Assist with boiler water tests and treatment		
.16	檢查鍋爐及其水位與燃燒器之正確操作 Check the correct operation of the boiler including water level and burner		

	協助吹灰或相關之程序 Assist with soot-blowing or associated procedure 協助備便蒸發器/淡水機 Assist with preparing an evaporator/fresh water	施訓者完成認可後 簽名押日期	如果對學員動作不滿意,應(擇日)重做到滿意再簽署。		
.18	generator				
.19	檢查所有蓄氣瓶之排水 Check all air receiver drains				
.20	檢查下列設施之正確操作: Check correct operation of: 燃油淨油機與過濾器 Fuel oil purifiers and filters				
.21	潤滑油淨油機與過濾器 Lube oil purifiers and filters				
.22	協助更換潤滑油冷卻器 Assist with changeover of lube oil coolers				
.23	協助更換淡水泠卻器 Assist with changeover of fresh water coolers				
.24	協助艙櫃清潔作業 Assist with a tank cleaning operation				
.25	協助當值甲級船員備便開航 Assist watch officer on standby departure				
.26	協助當值甲級船員備便抵港 Assist watch officer on standby arrival				
.27	協助變更下列機器至備便任務: Assist with the changeover to standby duties for: 主機 Main engines				
.28	發電機 Generators				
.29	泵 Pumps				

.30	舵機 Steering gear	施訓者完成認可後	如果對學員動作不滿意,應(擇日)重做到滿意再簽署。		
.31	協助準備操縱 Assist with preparations for manoeuvring	簽名押日期			
.32	協助由重燃油變更為柴油作業 Assist with changeover from heavy fuel oil to diesel fuel oil operation				
.33	協助由柴油變更為重燃油作業 Assist with changeover from diesel fuel oil to heavy fuel oil operation				
.34	當引擎使用完畢後協助關閉主機與輔機系統 Assist with shutting down main engine and auxiliary systems when finished with engines				
.35	瞭解並執行英語之下列指令: Understand and execute orders in English concerning: 例行作業 Routine operations				
.36	緊急狀況 Emergency situations				
.37	協助製造淡水 Assist with maker up of fresh water				
.38	檢查淡水之比重 Check density of fresh water				
.39	協助更換乾燥劑與過濾器 Assist with replacing desiccant and filters				
.40	協助裝接污水系統管線 Assist with putting sewage system on line				
.41	協助建立 Assist with setting up: 押載水連線以便泵送 Ballast water system for pumping				

.42	艙底水泵 Bilge pump	旋訓书字出初可答	<u> </u>			
.43	協助 Assist with: 加油 Receiving bunkers	施訓者完成認可後 簽名押日期		如果對學員動作不滿意,應(擇日)重做到滿意再簽署。		
.44	將燃油轉駁至日用櫃 Transfer of fuel from bunker tanks to service tanks					
.45	協助甲級船員 Assist an officer with: 排放/打入押艙水/收艙 Deballasting/ ballasting/ stripping tanks					
.46	將組件拆解、清潔及重組 Opening units, cleaning parts and reassembly					
1.3	用安全作法執行機艙當值 Use safe working practices as related to engine-room operations			語文溝通清晰簡明,對資料或說明並不能明白瞭解時會尋求當值輪機員之意見或說明 Communications are clear and concise and advice or clarification is sought from the officer of the watch where watch information or instructions are not clearly understood	待 1.3.1 到 1.3. 後,由同一船船 不低於擬申請發 甲級船員簽署並 簽署者必須在所 料處 留下資料	且同部門 證職務之 押上日期
.1	開航前協助準備並試驗舵機與俥鐘 Assist with preparation and testing the steering gear and telegraphs for sea 瞭解曲軸箱油霧偵測器之用途	施訓者完成認可後 簽名押日期	É	如果對學員動作不滿意,應(擇日	日)重做到滿意再簽	署。
.2	Understand the purpose of the crankcase oil mist detector					
.3	確認在電力危險區域應採取之任何特別防護 事項 Identify any special precautions to be taken for electrical maintenance in hazardous areas					_
	證明能瞭解使用電動工具之工作實務與安全 程序 Demonstrate an understanding of safe working practices and procedures for use of power operated tools					

						7.5
.5	證明能瞭解進入密閉空間(艙櫃、尾軸通道、電纜與管路箱道、冰庫、貨艙、出入箱櫃及其他危險空間)之工作實務與安全程序Demonstrate an understanding of safe working practices and procedures for entry into enclosed spaces (tanks, duct keels, cable and pipe trunks, fridges, cargo holds, access trunks and other hazardous spaces)	施訓者完成認可征 簽名押日期	发	如果對學員動作不滿意,應(擇上	日)重做到滿意再簽	署。
.6	證明能瞭解在底肋板下之工作實務與安全程序 Demonstrate an understanding of safe working practices and procedures for work beneath floor plates					
.7	證明能瞭解使用起重機具與修正索具、吊鍵 與吊環之工作實務與安全程序 Demonstrate an understanding of safe working practices and procedures for use of lifting gear and correct rigging, slinging and eyebolts					
.8	證明能瞭解涉及移動重機械之工作實務與安全程序 Demonstrate an understanding of safe working procedures involved in moving heavy machinery					
.9	證明能瞭解下列工作實務與安全程序: Demonstrate an understanding of safe working practices and procedures: 在冰庫工作 Work within refrigeration machinery spaces					
.10	情氣房 Inert Gas machinery spaces					
.11	在電機房,包括掛有告示牌、斷電上鎖/掛 籤的房間內工作 Work on electrical machinery, including signage, lock out and tagging					
.12	處理油漬廢物料 Disposal of oily waste materials					
.13	穿著適當之防護衣 Use of appropriate protective clothing					

.14	熱作及熱作許可 Hot work and hot work permit	施訓者完成認可後 簽名押日期		如果對學員動作不滿意,應(擇日)重做到滿意再簽署。	
.15	以封鎖帶或柵欄標示工作區域 Marking off work areas with blocking tape or fencing	X 70 17 1 70			
.16	證明能瞭解在臺架上工作所需之防護 Demonstrate an understanding of the precautions required for working on staging		7_		
.17	證明能瞭解警告、法定安全與禁止之符號 Demonstrate an understanding of warning, mandatory safety and prohibition signs				
.18	證明能瞭解依照管路系統內容物或功能,確認管路系統之標誌 Demonstrate an understanding of commonly used markings identifying piping systems in accordance with content or function		1 1		
.19	協助測試緊急停止電力 Assist with testing of electrical emergency stops				
.20	協助開關並固定機艙與天窗 Assist with the opening, closing and securing of engine-room and machinery hatches				
.21	協助試驗水密門、舷窗、艙口與緊急開關閥 Assist with the testing of watertight doors, ports, hatches and quick closing valves	-			
.22	確認所有之裝置、工具、備品等適當儲存與 固定 Ensure that all gear, tools, spares etc are properly stowed and secured				
.23	協助裝設安全索與護欄 Assist with the rigging of safety lines and guard rails				

1.4	執行基本環境保護程序 Practice basic environmental protection procedures			語文溝通清晰簡明,對資料或說明並不能明白瞭解時會尋求當值輪機員之意見或說明 Communications are clear and concise and advice or clarification is sought from the officer of the watch where watch information or instructions are not clearly understood	待 [1.4.1] 到 [1.4 後,由同一船舶 不低於擬申請發 甲級船員簽署並 簽署者必須在附 料處留下	且同部門 證職務之 押上日期 件基本資
.1	協助建立並使用油水分離器 Assist with setup and use of oily water separator	施訓者完成認可	後 人			
.2	協助使艙底水之泵送符合 MARPOL 公約規定 Assist with bilge pumping in compliance with MARPOL	簽名押日期		如果對學員動作不滿意,應(擇)	日) 重做到滿意再簽	署。
.3	操作廢品押碎器/押實器/焚化爐 Operate waste shredder/compactor/incinerator		< 1			
.4	依 MARPOL 公約規定在岸上/海上處理垃圾 Dispose of garbage ashore/at sea in compliance with MARPOL					
.5	協助處理油泥至岸上收受設施 Assist with disposal of sludge to shore reception facilities in compliance with MARPOL					
.6	對上述任務,知道保存所有操作之紀錄 For above duties, be aware of record keeping requirements for all operations	Y				
1.5	使用適當之船內通信系統 Use of appropriate internal communication system			語文溝通清晰簡明,對資料或說明並不能明白瞭解時會尋求當值輪機員之意見或說明 Communications are clear and concise and advice or clarification is sought from the officer of the watch where watch information or instructions are not clearly understood	待 [1.5.1] 到 [1.5 後,由同一船船 不低於擬申請發 甲級船員簽署並 簽署者必須在附 料處 留下資料	且同部門 證職務之 押上日期

	一份从入上,业从地址入一儿和林田叶、与山	T		1	
.1	示範進入無人當值機艙工作與離開時之報告程序 Demonstrate the reporting procedures when entering, working in and leaving an otherwise unmanned machinery space (UMS)	施訓者完成認可, 簽名押日期	É	如果對學員動作不滿意,應(擇)	日)重做到滿意再簽署。
.2	正確示範使用船內通信系統 Demonstrate correct use of internal communication systems			X3-/1	
1.6	測試機艙警報系統並證明有能力區別各種警報,尤其是滅火氣體警報 Test engine-room alarm systems and demodistinguish between the various alarms, w fire extinguishing gas alarm	•		語文溝通清晰簡明,對資料 或說明並不能明白瞭解時會 尋求當值輪機員之意見或說明 Communications are clear and concise and advice or clarification is sought from the officer of the watch where watch information or instructions are not clearly understood	待 [1.6.1] 到 [1.6.7] 皆完成後,由同一船舶且同部門不低於擬申請發證職務之甲級船員簽署並押上日期簽署者必須在附件基本資料處留下資料
.1	協助測試機艙火警偵測系統,並證明瞭解所裝置各種不同型式偵測器之目的 Assist with the testing of the engine-room fire detection system, and demonstrate an understanding of the purpose for which the different types of detector are fitted	施訓者完成認可, 簽名押日期	É	如果對學員動作不滿意,應(擇)	日)重做到滿意再簽署。
.2	協助測試機艙固定滅火系統之氣體釋放閥 Assist with the testing of the engine-room fixed fire extinguishing system gas release valve				
.3	瞭解在測試上述系統前所需之安全防護 Be aware of the safety precautions required prior to testing either of the above systems				
.4	瞭解在釋放滅火氣體進入機艙前所需之安全 防護 Be aware of the safety precautions required prior to release of a fire extinguishing gas into the engine-room				

	試驗並能辨識不同之警報並瞭解當下列警報發布時應採取之行動: Test and be able to identify the different alarms			
.5	and understand actions to be taken when these alarms operate: 通用警報 General alarm 火警警報 Fire alarm 高水位警報 High level alarm 低水位警報 Low level alarm 油水分離警報 OWS alarm 有毒氣體警報 Gas release alarm 關閉水密門警報 Water tight door closing alarm 其他機艙警報 Other engine-room alarms(列出 list)	施訓者完成認可後簽名押日期	如果對學員動作不滿意,應(擇	日)重做到滿意再簽署。
.6	如裝置有滅火用之固定二氧化碳系統。證明 具有使用與辨識警報程序之知識 Where fixed C02 system is fitted for fire extinguishing, demonstrate knowledge of procedures for use and recognise alarms			
.7	如裝置有灑水滅火系統。證明具有使用程序 之知識與辨識警報 Where water drench system is fitted, demonstrate knowledge of procedures for use and recognise alarms			

在鍋爐當值之乙級船員應證明有安全操作鍋爐與附屬設備程序之知識,並證明有維持正確水位與蒸汽押力之能力,暨在鍋爐區域進行必要之清潔與良好管理之實務。

On ship where a boiler watch is maintained ratings should demonstrate a knowledge of procedures for the safe operation of boilers and associated equipment and demonstrate ability to maintain correct water levels and steam pressure: and the necessity for cleanliness and good housekeeping practice in the boiler area.

2	適任 Competence: 維持正確之水位及蒸汽押力(值鍋爐班者) Maintain the correct levels and steam pressures (for keeping a boiler watch)		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)
2.1	鍋爐之安全操作 Safe operation of boilers		對鍋爐狀況評估準確,並 基於現場、遙控指示器及 親自檢查所得之有關資 訊。調整及時序保持安全 與最佳效果 Assessment of boiler condition is accurate and based on relevant information available from local and remote indicators and physical inspections. The sequence and timing of adjustments maintains safety and optimum efficiency	待 [2.1.1] 到 [2.1.15] 皆完成後,由同一船舶且同部門不低於擬申請發證職務之甲級船員簽署並押上日期簽署者必須在附件基本資料處留下資料
	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	協助提升燃油之溫度至正確油溫 Assist with raising the temperature of fuel oil from cold to the correct level 協助鍋爐加水並由冷爐加溫 Assist with filling a boiler and raising steam from cold	如果對學員動作不滿意,應(擇	日)重做到滿意再簽署。	

						.,
.3	協助 由 重 燃 油轉換至柴油作業 Assist with changeover from heavy fuel oil to diesel fuel oil operation					
.4	協助由柴油轉換至重 燃 油作業 Assist with changeover from diesel fuel oil to heavy fuel oil operation					
.5	使蒸汽通入管路或系統,採取所有防範措施避免溫度與押力之驟變及水鎚之發生Admit steam to a line or system, taking all precautions against thermal and pressure shock and the avoidance of water hammer		7	X2/L		
.6	檢查蒸汽管路之安全並防止膨脹 Check the security of steam pipes and provision for expansion			, //V		
.7	檢查蒸汽袪水器與凝水排洩之功能 Check that steam traps and drains are functioning	7/	7/4			
.8	關閉蒸汽管路遵守程序予以排放冷凝水 Close down a steam line, observing procedure for draining					
.9	檢查燃燒之品質,注意: Check quality of combustion, noting: 由煙囪冒出之煙 Smoke from the funnel 火焰周圍之明晰度 Clarity around the flame 火焰形狀、大小與顏色 Flame shape, size and color 過剩空氣、一氧化碳/二氧化碳讀數過高 Excess air, C02/CO readings 積存之碳與未燃之燃油 Carbon and unborn fuel deposits	施訓者完成認可 簽名押日期	後	如果對學員動作不滿意,應(擇	日)重做到满意再贫	答署 。
.10	檢查由加熱盤管與其他回水可能的污染 Check returns from heating coils and other possible sources of contaminated feed water					
.11	協助檢查所有鍋爐狀況顯示器與警報之正確功能 Assist with checking the correct functioning of all boiler condition indicators and alarms					

.12	協助更換與翻修油頭 Assist with changing and overhauling burners 檢查是否保持正確水位	施訓者完成認可後	如果對學員動作不滿意,應(擇)	日) 重做到滿意再簽署。		
.13	Check that correct boiler water level is maintained	簽名押日期				
.14	能瞭解循環水溫度變化之效能 Understand the effect of varying the temperature of circulating water		X3-/1			
.15	協助停用鍋爐 Assist with taking a boiler out of service	7.				
3	適任 Competence 操作緊急設備及應用緊 Operate emergency equ and apply emergency pr	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)			
3.1	演示緊急狀況下之職責 Demonstrate emergency duties		得知緊急或異常情況時所採取之最初行動與業已建立之程序相符。不論何時能清晰簡明的溝通且命令以船員方式確認Initial action on becoming aware of an emergency or abnormal situation conforms to established procedures. Communications are clear and concise at all times and orders are acknowledged in a seamanlike manner	待 [3.1.1] 到 [3.1.23] 皆完成後,由同一船舶且同部門不低於擬申請發證職務之甲級船員簽署並押上日期簽署者必須在附件基本資料處留下資料		
	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)		

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.1	在下列緊急演習中採取正確之行動: Take correct action during emergency drills: 消防演習 Fire drill					
.2	電力失靈演習 Black out drill	施訓者完成認可	後	1. 田业(朝日至) 14 丁沙亚、应(199	7口) 壬ル烈世屯五贫田	
.3	棄船演習 Abandon ship drill	簽名押日期		如果對學員動作不滿意,應(擇日)重做到滿意再簽署。		
.4	由密閉空間救人演習 Rescue from an enclosed space					
.5	協助在主機現場操控及緊急操縱 Assist with use of main engine local control and emergency manoeuvring			\ /\\		
.6	協助主機恢復至正常運轉之程序 Assist with procedure for returning main engine to normal running	71	- 1			
.7	協助應急運轉程序之演練 Assist with a drill for emergency running procedures		< 1			
.8	能示範舵機緊急操作之知識 Demonstrate knowledge of steering gear emergency operation 於船上之緊急應變演練中參與控制溢油					
.9	Participate in an emergency response exercise for controlling spillage of oil on board					
.10	參與演練危險貨物溢出之清理 Participate in drill for clean-up of hazardous cargo spillage					
.11	參與例如 在碰撞、坐礁或擱淺致泛水之緊急應變演練 Participate in an emergency response exercise for water ingress, e.g. in case of collision, stranding or grounding					
.12	說明火箭拋繩器之操作方法 Explain the operation of rocket line throwing apparatus					
.13	協助檢查與保養救生設備、下水吊桿與裝置					

	Assist with the inspection and maintenance of life saving appliances, launching davits and gear			<	
.14	協助例行保養救生艇引擎 Assist with the routine maintenance of a lifeboat engine				
.15	參與海上緊急急救演習 Participate in an emergency first aid drill at sea			3/7	
.16	證明能對下列急救原則具有之基本瞭解: Demonstrate a basic understanding of first aid principles: 止血 Stopping bleeding	施訓者完成認可 簽名押日期	後	如果對學員動作不滿意,應(擇	日)重做到滿意再簽署。
.17	處理窒息/溺水 Treatment of suffocation/drowning				
.18	在適當場所安置傷患 Placing casualty in the recovery position		-		
.19	示範如何處理休克之傷患 Demonstrate how to handle a casualty in shock		CT	7	
.20	示範能依照處理中暑之程序 Demonstrate procedures for dealing with heat stroke				
.21	說明處理電擊事故之程序 State procedure for dealing with a casualty of electric shock				
.22	示範處理燙傷之程序 Demonstrate procedure for treating burns				
.23	示範安全帶與安全索之使用 Demonstrate use of safety harness and line				
3.2	從機艙逃生之路線 Use escape routes from machinery spaces			得知緊急或異常情況時所採取之最初行動與業已建立之程序相符。不論何時能清晰簡明的溝通且命令係以船員方式確認 Initial action on becoming aware of an emergency or abnormal situation conforms to established procedures. Communications are clear and concise at all times and	待 [3.2.1] 到 [3.2.4] 皆完成後,由同一船舶且同部門不低於擬申請發證職務之甲級船員簽署並押上日期簽署者必須在附件基本資料處留下資料

				orders are acknowledged in a seamanlike manner		
.1	指出從機艙之逃生路線並示範如何活用 Locate and demonstrate use of the escape routes from machinery spaces					
.2	確認所有緊急逃生呼吸器(EEBDs)之位置 Identify location of all emergency escape breathing devices (EEBDs)	施訓者完成認可後		如果對學員動作不滿意,應(擇日)重做到滿意再簽署。		
.3	示範緊急逃生呼吸器之穿戴與使用 Demonstrate donning and use of emergency escape breathing device set	簽名押日期	7	如木對字貝勁作不冲息,應(存	口) 里做到闹息丹氮	有。
.4	參與由機艙之搜索與救助演練 Participate in a search and rescue drill from a machinery space					
3.3	證明熟悉機器空間之滅火設備位置及其使用			得知緊急或異常情況時所採取之最初行動與業已建立之程序相符。不論何時能清晰簡明的溝通且命令係以船員方式確認 Initial action on becoming aware of an emergency or abnormal situation conforms to established procedures. Communications are clear and concise at all times and orders are acknowledged in a seamanlike manner	待 3.3.1 到 3.3. 後,由同一船舶 不低於擬申請發 甲級船員簽署並 簽署者必須在附 料處 留下資源	且同部門 證職務之 押上日期 件基本資
.1	協助例行測試與保養下列設備: Assist with routine testing and maintenance of: 消防泵 Fire pumps	施訓者完成認可 簽名押日期	後	如果對學員動作不滿意,應(擇	日)重做到滿意再簽	·署。
.2	防火窗 Fire flaps					
.3	機艙減火系統及設備 ER fire extinguishing system and equipment					
.4	瞭解下列設備之使用並協助保養: Understand use and assist in the maintenance of: 輕便泡沬滅火器 Portable foam extinguisher					

						<u> </u>
.5	輕便二氧化碳滅火器 Portable C02 extinguisher					
.6	輕便乾粉滅火器 Portable dry powder extinguisher					
.7	執行火警巡邏任務 Perform fire patrol duties			3/7. 77.		
,8	參與在海上與岸上火警緊急回應演練 Participate in an emergency response exercise for fire at sea and in port			1271		
.9	如裝置有下列系統協助其測試: Assist with the testing of the following systems, where fitted: 固定自動灑水器 Fixed automatic sprinklers	施訓者完成認可 簽名押日期	後	如果對學員動作不滿意,應(擇	日)重做到滿意再為	5署。
.10	固定蒸汽系統 Fixed steam systems					
.11	固定泡沬滅火器 Fixed foam extinguishers					
.12	固定二氧化碳系統 Fixed CO2 systems					
.13	防火窗與擋板 Fire flaps and dampers					
.14	自動與人工防火門 Automatic and manual fire doors					
.15	緊急開關閥,停泵與主機停止開關 Emergency shut off valves, pump stops and main engine stops					
.16	示範消防員裝具設備之使用 Demonstrate use of equipment in the fire-fighter's outfit					
.17	示範固定滅火系統之使用 Describe the operation of the fixed fire extinguishing system					
.18	示範進入密閉空間之程序與所需之防護 Demonstrate the procedures and precautions required for entry into an enclosed space					

.19	示範呼吸器裝具之穿戴與使用 Demonstrate donning and use of breathing apparatus sets		<	
.20	示範防護衣與設備之穿戴與使用 Demonstrate donning and use of protective clothing and equipment			

第七部分 輪機助理員之科目 SECTION 7 TASKS FOR RATINGS QUALIFYING AS ABLE SEAFARER ENGINE

輪機助理員之訓練科目得與第六部分助理級輪機當值科目併予完成,以協助早日取得輪機助理員適任證書。

The training tasks for Able Seafarer Engine which follow may be completed alongside watch rating tasks for Marine Engineering at the Support Level contained in Section 6. This may assist in the early achievement of Able Seafarer Engine certification.

STCW 公約對輪機助理員之適任標準除反應助理級輪機當值乙級船員之廣泛工作外,並包括適任於輪機工程外另增加之三種助理級適任性專長:

The STCW competence standards for Able Seafarer Engine reflect the broader work of engine ratings and include additional competences in Engineering plus competences for three additional Support Level functions:

- ■電機、電子及控制工程 Electrical, Electronic and Control Engineering
- ■保養與維修 Maintenance and Repair
- ■船舶操作與船上人員管理 Controlling the Operation of the Ship and Care for Persons on Board

STCW 規則 III/5 STCW Regulation III/5

在有人值守機艙或指派在定期無人值守機艙執行職責之輪機助理員發證之強制性最低要求 Mandatory minimum requirements for certification of ratings as Able Seafarer Engine in a manned engine-room or designated to perform duties in a periodically unmanned engine-room

- 1. 凡在主機推進動力 750 瓩以上航行船舶上服務之輪機助理員應經適當發證。 Every Able Seafarer Engine serving on a seagoing ship powered by main propulsion machinery of 750kW propulsion power or more shall be duly certificated.
- 2. 凡申請發證者應:Every candidate for certification shall:
- .1 年滿 18 歲; be not less than 18 years of age;
- .2 符合構成有人值守機艙當值一部分或指派在定期無人值守機艙執行職責之乙級船員發證之要求; meet the requirements for certification as a rating forming part of a watch in a manned engine-room or designated to perform duties in a periodically unmanned engine-room;
- .3 具有資格承擔助理級輪機當值之同時,並具有認可之輪機部門海勤資歷: while qualified to serve as a rating forming part of an engineering watch, have approved seagoing service in the engine department of:
- .3.1 至少 12 個月;或 not less than 12 months, or
- .3.2 至少 6 個月並已完成認可之訓練;及

not less than6 months and have completed approved training; and .4 符合 STCW 章程第 A-III/5 節規定之適任標準。
 meet the standard of competence specified in section A-III/5 of the STCW Code.
學員可在第八部分所列科目概要表上標出其需完成之船上訓練科目。
A Task Summary Chart, which trainees can tick off as they complete their on board training tasks, can be found in Section 8.

專長 FUNCTION:輪機工程 MARINE ENGINEERING AT THE SUPPORT LEVEL

項次 Ref No	訓練 Training			適任性證明 Competence Demonstrated
4	適任 Competence 致力於安全輪機當 Contribute to a safe engine	評估標準 Criteria for Evaluation	同部門較自身高階之 甲級船員簽名/日期 Assessor (Signature/Date)	
4.1	1 101111 to allacidatia ofacid alla to collinialiteate with the officer		溝通清晰簡明 Communications are clear and conciser	待 [4.1.1] 到 [4.1.4] 皆完成 後,由同一船舶且同部門不 低於擬申請發證職務之甲級 船員簽署並押上日期簽署者 必須在附件基本資料處 留下資料
	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	瞭解口令為出航作下列之測試與準備: Understand orders for testing and preparing for sea: 機艙舵機系統 Steering system 俥鐘 Telegraphs 輔機與設備 Auxiliary plant and equipment 主機操縱(另列) Main engine manoeuvring (list others):	施訓者完成認可後 簽名押日期	如果對學員動作不滿意,應(擇	
.2	瞭解口令並溝通 Understand and communicate orders			
.3	如甲級船員之口令不明或違反安全實務,能瞭解需要及時尋求闡明與確認 Understand the need to promptly seek clarification and confirmation if an officer's order is unclear or contrary to safe practice			

						- 30 -
.4	在團隊中隨時扮演有效之角色 Play an effective role as a team member at all times					
4.2	接班、值班及交班程序 Procedures for the relief, maintenance and	l handover of a	watch	值班、交班與接班符合公認 之方法與程序 Maintenance, handover and relief of the watch is in conformity with acceptable practices and Safety Management System (SMS) procedures	待 4.2.1 到 4.2 後,由同一船舶低於擬申請發證船員簽署並押上必須在附件基留下資	且同部門不 職務之甲級 日期簽署者 本資料處
	科目/職責 Task/Duty	科目已完 Task Comp 施訓者簽名 Instruct (Signature/	oleted /日期 or	對改進部分之建議 Advice on Areas for Improvement	科目已完 Task Comp 施訓者簽名 Instruct (Signature/	oleted 5/日期 or
.1	按規定穿著,準時並適合當值 Consistently arrive on watch appropriately dressed, fit for duty and on time		4			
.2	在下列情況明確之接收、傳遞有關當值任務之信息: Receive and pass on information relevant to watch duties clearly during: 機艙無人當值控制作業 UMS control operation	施訓者完成認可 簽名押日期	後	如果對學員動作不滿意,應(擇	日)重做到滿意再翁	·署。
.3	駕駛台控制作業 Bridge control operation					
.4	接班時如對任何事項無法把握時能尋求闡明 Seek clarification if unsure on any matter when taking over watch (at sea, at anchor, in port)					
.5	瞭解在下列情況應遵守之程序: Understand procedures to be followed during: 機艙無人當值控制作業 UMS control operation					
.6	駕駛台控制作業 Bridge control operation					
.7	檢查自動控制與監測系統之正常操作 Check normal operation of automatic control and monitoring systems					

.9	依適當之巡邏機艙週遭情況報告或記錄於輪機日誌 Perform routine ER rounds and report or log rounds as appropriate 瞭解如有理由相信接班者不能有效執行當值時應拒絕交班 Understand the need to refuse to hand over the watch if there is reason to believe that the relief is not capable of carrying out watchkeeping duties effectively				
4.3	需要安全當值所需之資訊 Information required to maintain a safe w	atch	值班、交班與接班符合公認 之方法與程序 Maintenance, handover and relief of the watch is in conformity with acceptable practices and Safety Management System (SMS) procedures	待 4.3.1 到 4.3.9 後,由同一船舶且 低於擬申請發證職 船員簽署並押上日 必須在附件基本 留下資料	同部門不 務之甲級 期簽署者
	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/E Instructor (Signature/Da	eted 日期
.1	在港依指示保持安全當值 In port, maintain watch as per instructions 檢查空氣押縮機並啟動空氣系統 Check starting air compressor and starting air system	施訓者完成認可後 簽名押日期	如果對學員動作不滿意,應(擇	日)重做到滿意再簽署	逆 。
.3	檢查平台、走道與進口上危及安全之危險 Check for safety hazards on plates, walkways and access points				
.4	協助開關並予固定機艙及機器空間之天窗 Assist with the opening, closing and securing of engine room and machinery hatches				
.5	在錨泊依指示保持當值 At anchor, maintain watch as per instructions				

.7	如遇警報或由操作環境發生不平常之需求,呼叫協助 Call for assistance if alarms or unusual demands arise from operational circumstances 當主機使用完畢後協助關閉主機 Assist with shut down of main engines when finished with engines 當主機使用完畢後協助關閉相關輔機系統 Assist with shut down of auxiliary systems when finished with engines				,	
.9	執行鍋爐水試驗並報告結果 Conduct boiler water tests and report results					
5	適任 Competence: 致力於機艙當值之監控 Contribute to the monitoring arid controlling of an engine- room watch			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)	
5.1	主推進機與輔機功能操作之基本知識 Basic knowledge of the function and operation of main propulsion and auxiliary machinery			對主推進機與輔機之監控頻率與範圍符合認可之原則與程序 The frequency and extent of monitoring of main propulsion and auxiliary machinery conforms with accepted principles and procedures	待 5.1.1 到 5.1.31 皆完成後,由同一船舶且同部門不低於擬申請發證職務之甲級船員簽署並押上日期簽署者必須在附件基本資料處留下資料	
	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)	
.2	在駕駛台可以操作前協助檢查舵機 Assist with steering gear checks with bridge prior to operation 描述下列系統: Trace out and describe the following systems:	施訓者完成認可後 簽名押日期		如果對學員動作不滿意,應(擇日)重做到滿意再簽署。		

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	主機燃油系統 Main engine fuel system					
.3	主機潤滑油系統 Main engine lubricating oil system			-11		
.4	主海水冷卻系統 Main sea water cooling system			X/\(\text{\tint{\text{\tint{\text{\tin}\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\tex{\tex		
.5	協助準備操作機艙內之機器 Assist with preparations of engine room machinery for manoeuvring		7			
.6	協助由機艙控制室操縱主機,包括啟動、停機與倒俥 Assist in manoeuvring the main engine from the engine-room control position, including starting, stopping and reversing	7.7				
.7	瞭解自緊急操縱位置控制主機之程序包括啟動/停機/倒俥或可變螺距螺槳(CPP)或倒俥離合器之操作 Understand the procedure for controlling the main engine from the emergency manoeuvring position(s), including start/stop/reverse or CPP or reverse clutch operation	施訓者完成認可 簽名押日期	俊	如果對學員動作不滿意,應(擇	日)重做到滿意再簽署	
.8	在監督下、在操船期間回應駕駛台之指令並操作主機控制器 Under supervision, respond to instructions from the bridge and operate the main engine controls during periods of manoeuvring					
.9	執行主機與輪軸啟動之前的檢查 Carry out post start-up checks of main engine and shafting					
.10	在監督下、調整主機與輔機以便出航 Under supervision, adjust main engine and auxiliary machinery for sea passage					
.11	在監督下、變更重燃油為柴油作業 Under supervision, change over from HFO to diesel fuel oil operations					
.12	在監督下、變更柴油為重燃油作業					

	Under supervision, change over from diesel fuel oil to HFO operations				
.13	描述下列系統: Trace out and describe the following systems: 輔助蒸汽系統 Auxiliary steam system				
.14	柴油機冷卻水系統 Diesel engine water cooling systems			1/2/1/	
.15	將主要及備用押縮機變更至正常運轉模式 Change over main and standby compressor to normal running mode		人		
.16	各泵變更至備用任務 Change over to standby duties for pumps	施訓者完成認可	後	1. 田业1 阻吕和14十十十, 陈1四	口) 壬ル孙世产五贫田。
.17	在監督下、啟動污水系統 Under supervision, start up sewage system	簽名押日期		如果對學員動作不滿意,應(擇	口) 里似到 冲息 丹 贫 看。
.18	執行飲用淡水系統之例行作業 Conduct routine operations on potable fresh water service				
.19	瞭解艙底水例行之泵出作業 Understand routine operations for pumping bilges				
.20	檢查下列排氣管之漏洩: Check exhaust pipes for leakage: 主機 Main engines				
.21	輔機 Auxiliary engines				
.22	緊急引擎 Emergency engines				
.23	操作輔助鍋爐包括燃燒系統 Operate auxiliary heating boilers including combustion system				
.24	協助作下列之例行試驗: Assist with routine tests on: 主機冷卻水 Engine cooling water				

.25	燃油 Fuel oil					
.26	潤滑油 Lube oil					
.27	潤滑油與燃油淨油機之監測作業 Monitor operations of lube oil and fuel oil purifiers			XX-77		
.28	在監督下、執行給水處理 Under supervision, conduct feed water treatment		7			
.29	依據資深甲級船員之指示測試發現及調整給水處理 Adjust feed water treatment according to test findings and instruction from a senior officer	施訓者完成認可 簽名押日期	俊	如果對學員動作不滿意,應(擇	日)重做到滿意再氦	答者 。
.30	檢查所有鍋爐狀況指示器與警報之正確功能 Check the correct functioning of all boiler condition indicators and alarms	双石17 日积	LH			
.31	嚙合、脫開及操作轉盤裝置 Engage, disengage and operate turning gear					
5.2	主推進機與輔機控制押力、溫度與水位之基本瞭解 Basic understanding of main propulsion and auxiliary machinery control pressures, temperature and level			有誤差但可被接受. 在繼續 進行工作前能立即確認不安 全之狀況或潛在之風險,並 予以報告及矯正 Deviations from the norm are identified. Unsafe conditions or potential hazards are promptly recognized, reported and rectified before work continues		
.1	執行例行之當值任務、檢查自動控制與監測 系統之正確功能 Carry out routine watchkeeping duties, checking the correct functioning of automatic control and monitoring systems			如果對學員動作不滿意,應(擇日)重做到滿意再簽署。		
.2	監測並報告主機冷卻水溫度 Monitor and report main engine cooling water temperature					

				·		
.3	瞭解引擎冷卻水進口與出口溫度偏差之範 圍 Understand the range and deviation of temperatures of engine cooling water intake and outflow					
.4	瞭解保持循環水正常溫度之必要性 Understand the need to maintain normal temperatures in circulating water			177		
.5	協助例行之主機冷卻水套冷卻水試驗 Assist with routine main engine jacket cooling water tests			1207-1		
.6	主機油押與溫度之監測與報告 Monitor and report main engine oil pressure and temperature		//>			
.7	瞭解引擎潤滑油系統溫度與押力偏差之範 圍 Understand the range and deviation of temper- atures and pressures of engine lube oil systems	施訓者完成認可	後	如果對學員動作不滿意,應(擇	日) 重做到滿音再為	芝罗 。
.8	具有系統閥正常運轉位置之知識 Have a knowledge of the system valve positions for normal running	簽名押日期	< 7	X-1631 7 X 30 11 11 11 11 11 11 11 11 11 11 11 11 11	· · · · · · · · · · · · · · · · · · ·	- TH
.9	協助執行例行之主機安全斷路器與警報測試 Assist in carrying out routine testing of main engine safety trips and alarms					
.10	燃油日用櫃油位與含水量之檢查及報告 Check and report fuel service tank level and water content					
.11	輔機冷卻水溫度之檢查及報告 Check and report auxiliary engine cooling water temperature					
.12	輔機油押與溫度之檢查及報告 Check and report auxiliary engine oil pressure and temperature					
.13	協助執行例行之輔鍋爐安全斷路器與警報之 試驗 Assist in carrying out routine testing of auxiliary boiler safety trips and alarms					
.14	在監督下、執行沖放水位計玻璃並施行檢查 鍋爐水位指示器之正確度					

	Under supervision, blow down gauge glasses and perform checks on the correct boiler water level indication					
.15	協助準備運轉蒸發器/淡水機 Assist in preparations to run an evaporator/fresh water generator			- 7		
.16	協助試驗調整飲用淡水之純淨度 Assist in tests and conditioning for purity of potable fresh water			1/20-/[]		
.17	檢查船用交流電機之正常操作 Check normal operation of ship's AC plant					
.18	協助安全關閉冷凍機/交流電機 Assist with shut down and secure refrigeration/AC plant	施訓者完成認可征	缓	如果對學員動作不滿意,應(擇	日) 重做到滿意再鱻	· 罗 。
.19	執行交流電過濾器之清潔程序 Carry out correct cleaning procedures for AC filters	簽名押日期		2-7(-2) 9 9 30 11 11 110 10 700 (17		- H
.20	瞭解需要依據 MARPOL 公約規定記錄任何 冷凍劑氣體之再填充 Understand the need for logging (in accordance with MARPOL) of any refrigerant gas recharge					
.21	檢查曲拐軸箱油霧偵測器並瞭解當警報發出之際需採取之行動 Check crankcase oil mist detector and understand the need for action to be taken in case of an alarm					
.22	證明具有正常操作調速器之知識 Demonstrate a knowledge of the normal operations of governors					
.23	證明具有正常押力櫃安全設計之知識 Demonstrate a knowledge of pressure tank safety devices					
6	適任 Competence 致力於加燃油與駁油 Contribute to fuelling and oil tra	作業	ns	評估標準 Criteria for Evaluation	適任性認 Competed Demonstra 同部門較自身 甲級船員簽名	nce ated 高階之

					Assess (Signature		
6.1	業之準備 Knowledge of the function and operation of fuel system and oil transfer operations, including preparations for			依據既定之安全措施與設備 操作說明書進行駁油作業 Transfer operations are carried out in accordance with established safety practices and equipment operating instructions	待 6.1.1 到 6. 後,由同一船舶低於擬申請發署並押上必須在附件基資	且同部門不 職務之甲級 日期簽署者 本資料處	
	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	Task Com 施訓者簽名 Instruc	科目已完成 Task Completed 施訓者簽名/日期 Instructor (Signature/Date)	
.1	管路連線至各艙櫃準備轉駁燃油 Open up lines to tanks in preparation for fuel transfer	施訓者完成認可	後	如果對學員動作不滿意,應(擇	日)重做到滿意再。	答署 。	
.2	如屬適當使用十字接頭 Use cross connections, where appropriate	簽名押日期		x-7(2) 4 X 2) 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		^ 4	
.3	執行例行連線作業並接受燃油 Conduct routine operations for lining up and receiving fuel oil						
.4	具有遵守防止污染規定之知識 Have knowledge of and observe pollution prevention requirements						
.5	對於內部轉駁依指示準備並執行燃油轉駁 For an internal fuel transfer, prepare for and carry out fuel oil transfer, as instructed						
6.2	燃油系統與駁油作業之功能與操作之知識,包括加燃油與駁油軟管之連接與拆卸之程序 Knowledge of the function and operation of fuel system and oil transfer operations, including procedures for connecting and disconnecting fuelling and transfer hoses			依據既定之安全措施處理危險、有毒與有害液體。在操作員職責範圍內持續進行有效之溝通 The handling of dangerous, hazardous and harmful liquids complies with established safety practices. Communications within	待 [6.2.1] 到 [6.2] 後,由同一船舶 低於擬申請發證 船員簽署並押上 必須在附件基資	且同部門不 職務之甲級 日期簽署者 本資料處	

			the operator's area of responsibility are consistently successful	
	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	為團隊之一員,檢查燃油轉駁軟管之正確連接與拆卸 As a team member, check correct connection and disconnection of fuel transfer hose	施訓者完成認可後 簽名押日期	如果對學員動作不滿意,應(擇	日)重做到滿意再簽署。
.2	檢查 MARPOL 取樣器已正確連接並取樣 Check MARPOL sampler is correctly connected and sample taken			
.3	為團隊之一員,在拆卸轉駁軟管前先予洩清 As a team member, drain transfer hose before disconnection	7/1/4	4	
6.3	燃油系統與駁油作業之功能與操作之類 駁油作業過程中可能出現有關故障之應 Knowledge of the function and operation transfer operations, including procedures may arise during fuelling or transferring of	总程序 of fuel system and oil relating to incidents that	依據既定之安全措施處理危險、有毒與有害液體。在操作員職責範圍內持續進行有效之溝通 The handling of dangerous, hazardous and harmful liquids complies with established safety practices. Communications within the operator's area of responsibility are consistently successful	待 6.3.1 到 6.3.4 皆完成後,由同一船舶且同部門不低於擬申請發證職務之甲級船員簽署並押上日期簽署者必須在附件基本資料處留下資料
.1	證明能有在駁油作業中圍堵溢油及清理之知識 Demonstrate a knowledge of spill containment and clean up procedures during transfer operations	施訓者完成認可後 簽名押日期	如果對學員動作不滿意,應(擇	日) 重做到滿意再簽署。
.2	提升儲櫃中燃油之溫度自冷至正確之溫度標準 Raise the temperature of fuel oil in storage tanks from cold to the correct level	XXUIIIXI		
.3	示範關閉 Demonstrate shut down			

.4	使用緩衝櫃 Use holding tanks					
6.4	燃油系統與駁油作業之功能與操作之知 油與駁油作業 Knowledge of the function and operation transfer operations, including securing fro operations	of fuel system a	and oil	依據既定之安全措施處理危險、有毒與有害液體。 在操作員職責範圍內持續進 行有效之溝通 The handling of dangerous, hazardous and harmful liquids complies with established safety practices. Communications within the operator's area of responsibility are consistently successful	待 6.4.1 到 6.4 後,由同一船舶。 低於擬申請發證 船員簽署並押上 必須在附件基 留下資	且同部門不 職務之甲級 日期簽署者 本資料處
.1	在加油完畢將閥鎖緊並加封籤 Secure and tag valves on completion of bunkering	7				
.2	將甲板上之歧管上悶板鎖緊 Secure blank on deck manifold		4			
6.5	燃油系統與駁油作業之功能與操作之知報告油位之能力 Knowledge of the function and operation transfer operations, including ability to core	of fuel system	and oil	依據既定之安全措施處理危險、有毒與有害液體。在操作員職責範圍內持續進行有效之溝通 The handling of dangerous, hazardous and harmful liquids complies with established safety practices. Communications within the operator's area of responsibility are consistently successful	待 6.5.1 到 6.5 後,由同一船舶 低於擬申請發證 船員簽署並押上 必須在附件基 留下資	且同部門不 職務之甲級 日期簽署者 本資料處
.1	測艙底水深並將資料予以記錄 Sound bilges and record information		14			
.2	使用量計設備測計燃油艙櫃之餘深液面並記錄艙櫃之油位 Take fuel oil tank ullages and record tank levels using gauging equipment	- 施訓者完成認可後 簽名押日期		如果對學員動作不滿意,應(擇	日)重做到满意再簽	著。
.3	使用捲尺測燃油深度並記錄艙櫃之油位 Using tape take fuel oil soundings and record tank levels					

.4	依指示自燃油艙櫃轉駁燃油至日用櫃之正確 油位 Transfer fuel oil from bunker tanks to service tanks to correct levels as instructed			
.5	自沉澱櫃排洩水/油泥 Drain water/sludge from settling tanks			

7	適任 Competence 致力於艙底水與押載ス Contribute to bilge and balla	水作業	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	艙底水與押載水系統之功能安全性、擠括報告轉駁過程中所生之事故 Knowledge of the safe function, operation bilge and ballast systems, including repor with transfer operations	n and maintenance of the	依據既定之安全措施與設備操作規範進行操作與維護,以避免海洋環境污染。在操作員職責範圍內持續進行有效之溝通 Operations and maintenance are carried out in accordance with established safety practices and equipment operating instructions and pollution of the marine environment is avoided. Communications within the operator's area of responsibility are consistently successful	待 7.1.1 到 7.1.5 皆完成 後,由同一船舶且同部門不 低於擬申請發證職務之甲級 船員簽署並押上日期簽署者 必須在附件基本資料處 留下資料
	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	分辨清潔押載水艙由於洩漏或不明之污染使水含油 Recognise that clean ballast water tanks may contain oily water due to leakage or unknown contamination	施訓者完成認可後 簽名押日期	如果對學員動作不滿意,應(擇	日)重做到满意再簽署。
.2	瞭解到任何油或 Understand that any oil or oily water pumped or leaking into harbour/dock must be promptly reported			
.3	瞭解艙櫃轉駁應限在甲級船員指示下為之 Understand that tank transfers should only be executed on the instructions of an officer			

.4	協助艙底水泵出系統包括含油水分離器之作業,並協助完成必要之紀錄 Assist in the operation of the bilge pumping system including the oily water separator, and assist in completion of necessary records					
.5	檢查並清潔艙櫃吸入口、過濾箱、沁水與污水井 Check and clean tank suctions, strum boxes, bilges and wells			1/2		
7.2	艙底水與押載水系統之安全功能、操作 正確測量與報告艙內液位之能力 Knowledge of the safe function, operation bilge and ballast systems, including ability and report tank levels	n and maintenar	nce of the	在操作員職責範圍內持續進 行有效之溝通 Communications within the operator's area of responsibility are consistently successful	待 7.2.1 到 7.2 後,由同一船舶 低於擬申請發證 船員簽署並押上 必須在附件基 留下資	且同部門不 職務之甲級 日期簽署者 本資料處
.1	測艙底水深並將資料予以記錄 Sound bilges and record information	施訓者完成認可	後	1 用业份只到 1/2 平 中 市/1回	o) <u> </u>	÷ 127
.2	以人工及使用量測系統測深並將資料予以記錄 Take and report tank soundings manually and using gauging system	簽名押日期		如果對學員動作不滿意,應(擇	日) 里做到减息丹翁	者。
.3	協助泵抽艙底水以符合 MARPOL 防止污染 之規定與要求 Assist in pumping bilges in compliance with MARPOL pollution prevention regulations and requirements					
.4	依指示轉駁/注入押載水艙至正確水位 As instructed transfer/flood ballast water tanks to correct levels					

8	適任 Competence 致力於設備與機械之安 Contribute to the safe operation of equ	全操作		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)
8.1	設備之安全操作,包括閥與泵 Safe operation of equipment, including: v	alves and pumps	依據既定之安全措施與設備操作規範進行操作,在操作 員職責範圍內持續進行有效 之溝通 Operations are carried out in accordance with established safety practices and equipment operating instructions. Communications within the operator's area of responsibility are consistently successful	待 8.1.1 到 8.1.11 皆完成 後,由同一船舶且同部門 不低於擬申請發證職務之 甲級船員簽署並押上日期 簽署者必須在附件基本資 料處 留下資料
	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)
.2	協助甲級船員從事 Assist an officer with: 打入押載水 Ballasting 打出押載水 Deballasting	施訓者完成認可後 簽名押日期	如果對學員動作不滿意,應(擇	
.3	收艙 Stripping tanks			
.4	操作潤滑油淨油機 Operate a lube oil purifier			
.5	操作燃油淨油機/油水分離器 Operate a fuel oil purifier/separator			
.6	操作正押式泵 Operate positive displacement pump			

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.7	操作離心泵 Operate a centrifugal pump					
.8	啟動緊急押縮機並連接於管路 Start-up and put on line the emergency compressor					
.9	啟動緊急發電機並連接於線路 Start-up and put on line the emergency generator			3/7/27		
.10	啟動緊急消防泵 Start-up the emergency fire pump					
.11	列出你曾操作之其他設備: List other equipment you have operated:	施訓者完成認可 簽名押日期	後	如果對學員動作不滿意,應(擇	日)重做到滿意再義	芝署 。
8.2	設備之安全操作,包括起吊設備 Safe operation of equipment, including ho equipment	oists and lifting		依據既定之安全措施與設備操作規範進行操作,在操作 員職責範圍內持續進行有效 之溝通 Operations are carried out in accordance with established safety practices and equipment operating instructions. Communications within the operator's area of responsibility are consistently successful	待 8.2.1 到 8.2 後,由同一船船 不低於擬申請發 甲級船員簽署並 簽署者必須在附 留下資	自且同部門 一證職務之 上押上日期 十件基本資
.1	在監督下操作機艙高架起重機 Operate engine-room lifting gantry under supervision 瞭解吊重設備之吊重受限於安全工作負載值	施訓者完成認可? 簽名押日期	後	如果對學員動作不滿意,應(擇	日)重做到滿意再義	答者 。
.2	Understand hoists and lifting equipment are limited by Safe Working Load (SWL)					
.3	確認用以吊重之鏈滑車、接環、吊鏈、滑車吊索等之安全工作負載值 Identify SWL of chain blocks, shackles, slings, strops etc used for lifting					
.4	協助拔出主機活塞 Assist with pulling main engine piston					

.5	使用機艙吊桿移動備品 Use stores crane for handling engine-room stores					
8.3	設備之安全操作,包括艙口蓋、 水密門、舷窗與相關之設備 Safe operation of equipment, including ha ports and related equipment	itches, watertigl	ht doors,	依據既定之安全措施與設備操作規範進行操作,在操作員職責範圍內持續進行有效之溝通 Operations are carried out in accordance with established safety practices and equipment operating instructions. Communications within the operator's area of responsibility are consistently successful	待 8.3.1 到 8.3 後,由同一船舶上 低於擬申請發證 船員簽署並押上 必須在附件基 留下資	目同部門不
.1	固定機艙通氣管、通氣管軸與防火窗 Secure engine-room vents, vent shafts and fire flaps	施訓者完成認可? 簽名押日期	É	如果對學員動作不滿意,應(擇	日)重做到滿意再簽	* 署。
.2	協助移動曲拐軸箱門 Assist with removing crankcase doors					
.3	瞭解在艙口、門及舷窗上之密封橡皮需定期更換 Understand that rubber sealing on hatches, doors and ports needs replacing periodically					
.4	裝配防護鋼索、鏈或柵欄於開啟之艙口、 艙底板等 Rig guard wires, chains or fences at open hatch ways, floor plates etc					
.5	瞭解危險會隨遙控操作水密門時發生 Understand dangers associated with remotely operated water tight doors					

.6	開關水密門包括艏、艉及船體外板上之門 Open and close water tight doors including bow, stern and shell doors					
8.4	有能力使用並瞭解起重機、絞機與起界 Ability to use and understand basic crane,		st signals	依據既定之安全措施與設備操作規範進行操作,在操作 員職責範圍內持續進行有效 之溝通 Operations are carried out in accordance with established safety practices and equipment operating instructions Communications within the operator's area of responsibility are consistently successful	待 8.4.1 到 8.4 後,由同一船舶 低於擬申請發證 船員簽署並押上 必須在附件基 留下資	且同部門不問務等問題。因為一個一個一個一個一個一個一個一個一個一個一個一個一個一個一個一個一個一個一個
.1	瞭解並示範控制起吊設備與絞纜機所用之一般手語信號 Understand and demonstrate use of commonly used hand signals for control of lifting appliances and winches	施訓者完成認可, 簽名押日期	E	如果對學員動作不滿意,應(擇	日)重做到满意再氦	*署。
.2	瞭解在不同文化下之信號可能有差異 Understand that in different cultures signals commonly used may differ					
.3	瞭解應採用需經作業團隊人員協議之信號 Understand the need to agree signals to be used and which person in a team is in control of lifting operation					

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

項次 Ref No	訓練 Training			適任性證明 Competence
19	適任 Competence 電機設備之安全使 Safe use of electrical equ	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)	
9.1	電機設備之安全使用與操作, 包括在開始工作或修理前之安全防護措施 Safe use and operation of electrical equipment, including safety precautions before commencing work or repair		確認並報告有漏電危險與不 安全之設備了解手動設備之 正確電押 Recognizes and reports electrical hazards and unsafe equipment. Understands safe voltages for hand held equipment	待 9.1.1 到 9.1.7 皆完成 後,由同一船舶且同部門 不低於擬申請發證職務之 甲級船員簽署並押上日期 簽署者必須在附件基本資 料處 留下資料
	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	證明能對電機危險性之基本瞭解 Demonstrate a basic understanding of the risks associated with electrical equipment 瞭解電押愈高致命電擊之危險愈大 Understand that the higher the voltage the greater the risk of fatal shock	施訓者完成認可後 簽名押日期	如果對學員動作不滿意,應(擇	日)重做到滿意再簽署。
.3	瞭解高電押可能出現於低電押設備 Understand that high voltages may be present in low voltage equipment 在開始危險工作前即有應變計劃與準備 Identify risks, plan and prepare before starting work			

.5	瞭解何種作業在開始工作前需經許可 Understand what tasks require a permit to work prior to starting work			
.6	危險區域內安全使用電機設備之知識 Apply knowledge of safe use of electrical equipment for use in hazardous areas			
.7	證明有錯誤接地之知識及如何避免之 Demonstrate a knowledge of earth faults and how to avoid them		1/23-/[]	
9.2	電機設備之安全使用與操作,包括絕緣 Safe use and operation of electrical equipment including isolation procedures		瞭解高押設備與船上工作之 危險 Understands risks associated with high voltage equipment and on board work	待 9.2.1 到 9.2.3 皆完成 後,由同一船舶且同部門 不低於擬申請發證職務之 甲級船員簽署並押上日期 簽署者必須在附件基本資 料處 留下資料
.1	當從事修理或保養工作時將相關之設備盡可能予以絕緣、斷電上鎖/掛籤 Isolate, tag and lock out where possible associated equipment when engaged in repair or maintenance work	施訓者完成認可後 簽名押日期	如果對學員動作不滿意,應(擇	日)重做到滿意再簽署。
.2	瞭解由電弧、短路及高電押所生之危險 Understand the dangers from arcs, short circuits and high voltage			
.3	在高電押設備內工作採正確之接地程序 Adopt correct earthing procedures for work on high voltage equipment			
9.3	電機設備之安全使用與操作,包括應急之程序 Safe use and operation of electrical equipment, including emergency procedures		瞭解高押設備與船上工作之 危險 Understands risks associated with high voltage equipment and on board work	待 9.3.1 完成後,由同一船 舶且同部門不低於擬申請 發證職務之甲級船員簽署 並押上日期簽署者必須在 附件基本資料處留下資料
.1	演練遭電擊之醫療急救 Demonstrate an electric shock first aid rescue	施訓者完成認可後 簽名押日期	如果對學員動作不滿意,應(擇	日)重做到滿意再簽署。

.2	證明具有減緩風險之措施包括絕緣工具、絕緣手套、絕緣橡膠蓆等之使用 Demonstrate a knowledge of risk mitigation measures including use of insulated tools, electrical insulated gloves, rubber isolation mats etc					
9.4				瞭解高押設備與船上工作之 危險 Understands risks associated with high voltage equipment and on board work	待 9.4.1 到 9.4.10 後,由同一船舶且 不低於擬申請發證 甲級船員簽署並押 簽署者必須在附件 料處留下資	L同部門 登職務之 甲上日期 +基本資
.1	協助追查及糾正主輔電機系統接地之錯誤 Assist in tracing and correcting earth faults on main and secondary electrical systems			7		
.2	證明能辨識接地之因素,例如絕緣破裂、設備鬆脫、有燃燒或弧光之跡象 Demonstrate recognition of factors indicating earths, e.g. broken insulation, loose equipment, signs of burning or arcing	施訓者完成認可, 簽名押日期	後	如果對學員動作不滿意,應(擇)	日) 重做到滿意再簽署	· 0
.3	協助進行下列之例行保養: Assist in the routine maintenance of:					
.4	跳脫機制 Tripping mechanisms					
.5	馬達起動器 Motor starters					
.6	照明燈 Lighting					
.7	緊急蓄電池 Emergency storage batteries					
.8	協助例行馬達與發電機之測試與保養 Assist in routine testing and maintenance motors and generators					

.9	證明具有在主配電盤進行危險工作之知識 Demonstrate knowledge of hazards of working on main switch boards					
.10	證明具有交流電機或發電機跳脫,並將之復原之知識 Demonstrate knowledge of alternator or generator trips and their resets			17.		
9.5	電擊之原因與防止電擊應遵循之安全保 Knowledge of the causes of electric shock to be observed to prevent shock		18	瞭解高押設備與船上工作之 危險 Understands risks associated with high voltage equipment and on board work	待 [9.5.1] 到 [9.5 後,由同一船船 不低於擬申請發 甲級船員簽署在 簽署者必須在附 留下資	且同部門 證職務之 押上日期 件基本資
.1	證明瞭解船舶許可工作系統 Demonstrate an understanding of the ship's permit to work system	施訓者完成認可	-44	1		
.2	使用電力操作工具與設備當應用安全工作實務 Apply safe working practices in using electric power operated tools and equipment	· 施訓者元放認可 簽名押日期	校	如果對學員動作不滿意,應(擇	日)重做到滿意再簽	答者 。
.3	瞭解電擊之風險在有濕氣或潮濕之情況下較 大 Understand the risk of shock is greater in damp or humid conditions					

專長 FUNCTION:助理級-保養及維修

MAINTENCE AND REPAIR AT THE SUPPORT LEVEL

項次 Ref No	訓練 Training			適任性證明 Competence
	AT Commetence		」 評估標準	Demonstrated
10	適任 Competence: 致力於船上之保養及維修		Criteria for Evaluation	同部門較自身高階之 甲級船員簽名/日期
				Assessor
	Contribute to shipboard maintenance and	repair		(Signature/Date)
10.1	表面準備技術之知識 Knowledge of surface preparation techniques		依據技術、安全與程序規範 進行保養行動 Maintenance activities are carried out in accordance with technical, safety and procedural specifications. Selection and use of equipment and tools is appropriate	待 10.1.1 到 10.1.6 皆完成 後,由同一船舶且同部門 不低於擬申請發證職務之 甲級船員簽署並押上日期 簽署者必須在附件基本資 料處 留下資料
	Task 科目/職責 Task/Duty 施訓》 In	目已完成 Completed 皆簽名/日期 structor ature/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	使用動力除鏽設備與磨床為鋼件之塗裝作準備 Prepare steel work for coating using powered scaling equipment and grinders			
.2	瞭解可能需要不同之塗裝順序,並應與塗料 製造廠商之說明書核對 Understand different coating sequences may be required and paint manufacturers' instructions should be checked	• • •	如果對學員動作不滿意,應(擇	日)重做到滿意再簽署。
.3	瞭解某些鐵鏽去除劑與去污劑可能會腐蝕眼 睛與皮膚,故應予防護 Understand some rust removers and degreasing agents may be corrosive and eyes and skin should be protected			

	咬知男与比例如人冷慰明之丁 曰					
	瞭解單包裝與組合塗料間之不同					
.4	Understand the difference between one pack					
	and two pack paints					
	瞭解組合塗料一旦混合可能僅有有限之時間					
	可以應用					
.5	Understand two pack paints once mixed may			~ F-\		
	have limited time for application					
	證明具有與一般機艙不同塗料之知識,例如					
	證明共有與一般機關不同至什之知識,例如		\			
.6	Demonstrate a knowledge of the different					
	paints commonly used in the engine-room e.g.					
	enamel and epoxy paints					
				依據技術、安全與程序規範	待 10.2.1 到 10	1211 比它
		此力		進行保養行動		
	使用油漆、潤滑劑及清潔材料與設備之	- 凡 八		Maintenance activities are carried	成後,由同一船	
10.2	Ability to use painting, lubrication and			out in accordance with technical,	門不低於擬申請	
	· · · · ·			safety and procedural	之甲級船員簽署	
	cleaning materials and equipment			specifications. Selection and use of	期簽署者必須在	
				equipment and tools is appropriate	資料處留下	資料
				equipment and tools is appropriate		
.1	油漆面之清潔與保養					
• 1	Clean and maintain paintwork	施訓者完成認可	<i>1</i> 4			
	清潔與保養甲板清除油與油脂		X	如果對學員動作不滿意,應(擇)	日)重做到滿意再簽	答署。
	用添兴际食下飲用床油兴油加	簽名押日期		, , , , , , , , , , , , , , , , , , ,		
.2	Clean and maintain deck plates free of oil and					
	grease		1			
	使用刷/滾筒施加油漆					
.3	Apply paints using brush/roller					
	rippiy paints asing stash/forter					
	依指示施加保護塗料					
.4	Apply protective coatings as directed					
	瞭解油漆可能含有毒性或剌激物質					
.5	Understand paints may contain toxic or irritant					
	substances					
	瞭解在密閉空間內油漆時及油漆後應予通風					
	Understand need for interior and enclosed					
.6						
	spaces to be well ventilated during and after painting					

作不满意,應(擇日)重做到滿意再簽署。
作不滿意,應(擇日)重做到滿意再簽署。
存取程序規範 vities are carried with technical, wral dection and use of obls is appropriate (本) 10.3.1 到 10.3.4 皆完成 後,由同一船舶且同部門 不低於擬申請發證職務之 甲級船員簽署並押上日期 簽署者必須在附件基本資料處留下資料
作不滿意,應(擇日)重做到滿意再簽署。
·

10.4	瞭解與執行例行保養與修理程序之能力 Ability to understand and execute routine maintenance and repair procedures		依據技術、安全與程序規範 進行保養行動 Maintenance activities are carried out in accordance with technical, safety and procedural specifications. Selection and use of equipment and tools is appropriate	待 10.4.1 到 10.4.42 皆完成後,由同一船舶且同部門不低於擬申請發證職務之甲級船員簽署並押上日期簽署者必須在附件基本資料處留下資料	
.1	更換下列 Replace: 熔絲 Fuses	施訓者完成認可後	加里料學昌動化工世音,確(理	口) 舌似到世音雨然翠。	
.2	控制燈 Control lamps	簽名押日期	如果對學員動作不滿意,應(擇日)重做到滿意再簽署。		
.3	照明設備 Lighting equipment				
.4	協助追查接地錯誤 Assist in tracing earth faults				
.5	在監督下檢查空氣過濾器 Check control air filters under supervision				
.6	在監督下檢查空氣乾燥機並更換消耗品 Check control air driers and replace consumables under supervision				
.7	在監督下啟動淨油機/油水分離機進行清潔 Open up purifiers/separators for cleaning and maintenance under supervision				
.8	在監督下重行組裝淨油機/油水分離機 Reassemble purifiers/separators under supervision				
.9	協助主押縮機之例行保養 Assist with routine maintenance on the main compressor				
.10	協助主冷凍機之例行保養 Assist with routine maintenance on refrigeration plant				
.11	協助淡水機之例行保養 Assist with routine maintenance on fresh water generator				

.12	協助啟動離心泵 Assist with opening up centrifugal pump	施訓者完成認可後	如果對學員動作不滿意,應(擇日)重做到滿意再簽署。		
.13	協助啟動及保養正押式泵 Assist with opening up and overhaul positive displacement pump	簽名押日期			
.14	協助保養及測試各閥包括: Assist with overhaul and test valves including: 閘閥 Gate				
.15	螺旋止回閥 Screw down non return (SDNR)				
.16	螺旋提升閥 Screw lift				
.17	洩押閥 Relief				
.18	雙向或三向旋塞 Two or three way cock				
.19	關斷旋塞 Shut off cock				
.20	執行下列例行之保養: Carry out routine maintenance of: 舵機 Steering gear				
.21	吊貨絞機 Cargo winches				
.22	吊貨起重機 Cargo crane				
.23	協助測試水密門、舷窗、艙口蓋、及快速關 斷閥 Assist with the testing of watertight doors, ports, hatches and quick closing valves				

.24	協助試驗電機緊急停止器 Assist with testing of electrical emergency stops 執行下列之例行保養: Carry out routine maintenance of: 消防泵	· 施訓者完成認可後 簽名押日期	如果對學員動作不滿意,應(擇日)重做到滿意再簽署。		
.26	Fire pumps 防火窗 Fire flaps				
.27	機艙滅火系統與設備 Engine-room fire extinguishing system and equipment				
.28	緊急發電機 Emergency generator				
.29	緊急空氣押縮機 Emergency compressor				
.30	排洩至舷外各泵之遙控停止器 Remote stops for pumps with overboard discharges				
.31	燃油跳脫器 Fuel trips				
.32	協助保養主機氣缸頭 Assist in overhaul of main engine cylinder head				
.33	協助保養更換主機活塞環 Assist in overhaul/replacement of main engine piston rings				
.34	協助更換主機軸承 Assist in replacing main engine bearing				
.35	協助清潔渦輪增押機之進氣側 Assist with cleaning of air side of the turbo charger				
.36	協助以水洗渦輪增押機之排氣側 Assist with water wash exhaust side of main engine turbo charger				

.37	協助保養輔機 Assist with overhaul of auxiliary engines					
.38	在監督下測試水位計玻璃並檢查其通路、旋塞及閥件清楚 Under supervision, test water gauge glasses and check that passages, cocks and valves are clear	施訓者完成認可後 簽名押日期		如果對學員動作不滿意,應(擇日)重做到滿意再簽署。		
.39	協助啟動鍋爐 Assist with opening up a boiler					
.40	協助啟動 Assist with opening up: 鍋爐安全閥 Boiler safety valve					
.41	鍋爐給水止回閥 Boiler feed check valves					
.42	將你曾經執行例行保養與修理過之其他設備列出: List other equipment on which you have carried out routine maintenance or repairs:		1			
10.5	瞭解製造廠商之安全準則與船上之規範 Understand manufacturer's safety guidelines and shipboard instructions			依據技術、安全與程序規範 進行保養行動 Maintenance activities are carried out in accordance with technical, safety and procedural specifications. Selection and use of equipment and tools is appropriate	待 10.5.1 到 10.5 後,由同一船舶」 不低於擬申請發語 甲級船員簽署並打 簽署者必須在附行 料處留下資	且同部門 證職務之 押上日期 件基本資
.1	證明瞭解船舶之工作許可系統 Demonstrate an understanding of the ship's permit to work system 證明能瞭解安全準則之規定 Demonstrate an understanding of safety guidelines provided	施訓者完成認可後 簽名押日期		如果對學員動作不滿意,應(擇日)重做到滿意再簽署。		

.3	證明能瞭解進入密閉空間之慣例 Demonstrate an understanding of enclosed space entry routine					
.4	熟悉船上環境程序的必要已經瞭解 Demonstrate an understanding of the need for ship board familiarisation procedures					
.5	證明已瞭解何種安全資訊可能在製造商之手冊中提供Demonstrate an understanding of what safety information may be provided in manufacturers' manuals	施訓者完成認可? 簽名押日期	後	如果對學員動作不滿意,應(擇	日)重做到滿意再簽署。	
.6	證明已瞭解那些安全資訊可能會在船上之操作與保養手冊中提供 Demonstrate an understanding of what information may be provided in the ship's operations and maintenance manuals					
10.6	瞭解應用、保養並使用手持與動力工具、 量測儀器暨機械工具之知識			依據技術、安全與程序規範 進行保養行動 Maintenance activities are carried out in accordance with technical, safety and procedural specifications. Selection and use of equipment and tools is appropriate	待 [10.6.1] 到 [10.6.4] 皆後,由同一船舶且同不低於擬申請發證職。 甲級船員簽署並押上簽署者必須在附件基。 料處留下資料	部門 務之 日期
.1	將你曾經使用過之其他手持式或動力工具列出: List hand and power tools you have used:	施訓者完成認可行 簽名押日期	後	如果對學員動作不滿意,應(擇	日)重做到滿意再簽署。	
.2	將你曾經使用過之量測設備列出: List measuring equipment you have used: 線規 Liner gauge 測微計 Micrometer 其他 Others:					

.3	協助保養起動器 Assist with maintenance of a starter				
.4	協助追查接地 Assist with tracing earths				
10.7	金工工作之知識 Knowledge of metal work			依據技術、安全與程序規範 進行保養行動 Maintenance activities are carried out in accordance with technical, safety and procedural specifications. Selection and use of equipment and tools is appropriate	待 10.7.1 完成後,由同一船舶且同部門不低於擬申請發證職務之甲級船員簽署並押上日期簽署者必須在附件基本資料處留下資料
.1	將你曾經工作過之金工(例如管工、軸承、 鋼板、板金等)列出: List below metal work you have worked on (for example, pipe work, bearings, steel plate, sheet metal etc):	施訓者完成認可? 簽名押日期	後	如果對學員動作不滿意,應(擇	日)重做到滿意再簽署。

專長 FUNCTION:助理級-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 SUPPORT LEVEL

	KD AT THE SULLOKT LEVE			
項次 Ref No	all was Iroining		評估標準	適任性證明 Competence Demonstrated 同部門較自身高階之
111			Criteria for Evaluation	甲級船員簽名/日期 Assessor (Signature/Date)
11.1	安全處理、儲存及穩固物料之程序與知 Knowledge of procedures for safe handling stowage and securing of stores		依據既定之安全措施與設備操作規範進行物料操作。危險、有毒與有害物料之處理符合既定之安全措施。在操作員職責範圍內持續進行有效之溝通 Stores operations are carried out in accordance with established safety practices and equipment operating instructions. The handling of dangerous, hazardous and harmful stores complies with established safety practices. Communications within the operator's area of responsibility are consistently successful	待 [11.1.1] 到 [11.1.5] 皆完成後,由同一船舶且同部門不低於擬申請發證職務之甲級船員簽署並押上日期簽署者必須在附件基本資料處留下資料
	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	協助接收、檢查、儲存與固定船舶物料 Assist with receiving, checking, stowage and securing ship's stores	施訓者完成認可後	如果對學員動作不滿意,應(擇	日)重做到滿意再簽署。
.2	辨識物料之標籤係危險、危害或有害物質與 液體	簽名押日期	,,,	

	Recognise labels that indicate stores are classified as dangerous, hazardous or harmful substances and liquids				
.3	瞭解將此等物料(固體材料與流體)隔離之 理由與必要性 Understand the reasons and need for segregation of such stores (solid materials and fluids) 施訓者完成認可後 簽名押日期		如果對學員動作不滿意,應(擇日)重做到滿意再簽署。		
.4	說明危險材料漏洩或溢出之際所遵循之程序 Describe the procedure to follow in event of leakage or spillage of dangerous materials				
.5	瞭解材料安全數據表所提供在隔離與儲存時 之資訊與建議 Understand that Material Safety Data sheets provide information and advice on segregation and stowage	-1			
12	適任 Competence 應用預防措施並致力於防止海 Apply precautions and contribute of pollution to the marine e	洋環境之污染 to the preventio	n	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)
12.1	防止海洋環境污染所應採取預防措施之 Knowledge of the precautions to be taken prevent pollution of the marine environment	to		隨時遵循保護海洋環境所指 定之程序 Procedures designed to safeguard the marine environment are observed at all times	待 12.1.1 到 12.1.5 皆完成 後,由同一船舶且同部門 不低於擬申請發證職務之 甲級船員簽署並押上日期 簽署者必須在附件基本資 料處 留下資料
	科目/職責 Task/Duty	科目已完成 Task Comple 施訓者簽名/E Instructor (Signature/Da	ted 3 期	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	瞭解材料安全數據表所提供之關於滿溢或漏 洩時之資訊與建議	施訓者完成認可後 簽名押日期		如果對學員動作不滿意,應(擇	日)重做到滿意再簽署。

	Understand that Material Safety Data sheets					
	provide information and advice on responding					
	to spills or leaks					
	證明具有對加燃油、減押載水、油水分離、 焚化爐等之知識					
.2	Demonstrate a knowledge of the emergency			- 7- 3-		
	shutdown procedures for bunkering,					
	deballasting, OWS, incinerator, etc.					
	瞭解廢物需要隔離、記錄數量並送岸處置					
.3	Understand the need to segregate waste, record					
	amounts and land ashore for disposal 瞭解需依 MARPOL 公約儲存與處置含油廢	施訓者完成認可後		1. 田业1 朗吕利 14 丁米 立,应(四	口 壬ルジサ立五気	÷ 1927
	物解析版 MARFOL 公約储行與處直咨油險物	簽名押日期		如果對學員動作不滿意,應(擇	日)里做到减息丹鱼	者。
.4	Understand the need to store and dispose of					
	oily waste according to MARPOL					
	證明瞭解海洋環境需要保護					
.5	Demonstrates an awareness of the need to					
	protect the marine environment					
				隨時遵循保護海洋環境所指	待 12.2.1 到 12.	
	使用與操作防污染設備之知識			定之程序	後,由同一船舶 不低於擬申請發	
12.2		44		Procedures designed to safeguard	田细癿吕笈里光	
	Knowledge of use and operation of anti-pe	ollution equipme	ent	the marine environment are observed	簽署者必須在附	
				at all times	料處留下	
	參與在船上控制溢油之回應演練					
.1	Participate in an emergency response exercise					
	for controlling spillage of oil on board	施訓者完成認可後		如果對學員動作不滿意,應(擇)	日) 重做到滿意再為	等。
	參與清除危險貨物溢出之演習 Participate in deill for alcount of hearth and a	簽名押日期		7 7 2 7 7 7 30 11 7 110 10 70 (14	1) £ 13,01111 10 11 13	4
.2	Participate in drill for cleanup of hazardous substance spillage					
	證明具有對收集與隔離廢物與垃圾程序之知					
	識					
.3	Demonstrate a knowledge of the procedures to					
	collect and segregate waste and garbage					
	操作如設有之垃圾絞碎機/押縮機組及焚化					
.4	爐					
	Operate garbage shredder/compactor unit and					
	incinerator (where fitted)					

.5	瞭解嚴格遵守當地有關廢水與污水處理規則 之必要性 Understand the need to strictly observe local regulations concerning waste water and sewage disposal					
.6	瞭解嚴格遵守當地有關煙道氣排放規則之必要性 Understand the need to strictly observe local regulations concerning flue gas emissions			X3-/L		
.7	瞭解嚴格遵守 MARPOL 規則之必要性 Understand the need to strictly observe MARPOL regulations		人			
.8	瞭解嚴格遵守當地有關加押載水與減押載水規則之必要性 Understand the need to strictly observe local regulations concerning ballast water and deballasting	施訓者完成認可? 簽名押日期	Š	如果對學員動作不滿意,應(擇)	日)重做到滿意再簽	· 罗。
12.3	以認可方法處置海洋污染物之知識 Knowledge of use and operation			隨時遵循保護海洋環境所指 定之程序 Procedures designed to safeguard the marine environment are observed	待[12.3.1] 到 [12 成後,由同一船 門不低於擬申請 之甲級船員簽署 期簽署者必須在	·舶且同部 發證職務 ·並押上日
	of anti-pollution equipment			at all times		資料
.1	瞭解海洋污染物應依 MARPOL 公約之規定送至岸上安全處置 Understand that marine pollutants must be landed ashore for safe disposal in compliance with MARPOL	施訓者完成認可? 簽名押日期	俊	如果對學員動作不滿意,應(擇)	2,	
.2	瞭解有嚴格之規定適用於所有船舶在海上處置含油之水混合物 Understand there are strict rules covering disposal at sea of oily water mixtures applicable to all ships					
.3	瞭解有嚴格之規定適用於所有船舶在海上處置有毒液體物質 Understand there are strict rules covering disposal at sea of noxious liquid substances applicable to all ships					

.4	瞭解有嚴格之規定適用於所有船舶在海上處置以包裝型式載運有害物質 Understand there are strict rules covering disposal at sea of harmful substances carried in packaged form applicable to all ships					
.5	瞭解有嚴格之規定適用於所有船舶防止污水污染 Understand there are strict rules covering pollution prevention by sewage applicable to ships			X>/L	,	
.6	瞭解嚴格符合當地有關廢水與污水處置規定之重要性 Understand the importance of strict compliance with local regulations concerning waste water and sewage disposal	施訓者完成認可, 簽名押日期	後	如果對學員動作不滿意,應(擇	日)重做到滿意再義	著。
.7	瞭解有嚴格之規定適用於所有船舶防止船舶 在海上之垃圾污染 Understand there are strict rules for prevention of pollution by garbage from ships at sea, applicable to all ships		4			
.8	瞭解嚴格遵守當地有關垃圾儲置與岸上處理規則之必要性 Understand the need to strictly observe local regulations concerning garbage stowage and disposal ashore					
.9	瞭解有嚴格之規定適用於所有船舶在海上由 船舶日益增加之空氣污染 Understand there are strict rules covering air pollution from ships at sea which will progressively apply to all ships					
.10	瞭解嚴格遵守當地有關煙道氣排放規則之必要性 Understand the need to strictly observe local regulations concerning flue gas emissions					
.11	瞭解在海上處置廢物與海洋污染物通常會被取締並規範於岸上處置 Understand that disposal of waste and marine pollutants is generally banned at sea and the norm is to land ashore for disposal					

13	適任 Competence 應用職業健康與安全之列 Apply occupational health and sa	頁防措施	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	安全工作做法與人員在船安全之工作知 包括:電機安全 Working knowledge of safe working pract shipboard safety, including: Electrical safe	tices and personal	隨時遵循用保護人員與船舶 之指定程序,隨時遵守安全 工作做法並正確使用適當之 防護設備 Procedures designed to safeguard personnel and the ship are observed at all times. Safe working practices are observed and appropriate safety and protective equipment is correctly used at all times	待 [13.1.1] 到 [13.1.6] 皆完成後,由同一船舶且同部門不低於擬申請發證職務之甲級船員簽署並押上日期簽署者必須在附件基本資料處留下資料
	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	證明瞭解在使用電動工具與設備之安全工作 實務 Demonstrate an understanding of safe working practices in using electric power operated tools and equipment	施訓者完成認可後 簽名押日期	如果對學員動作不滿意,應(擇	日)重做到滿意再簽署。
.2	瞭解使用輕便電燈附帶之風險 Understand risks associated with using portable electric lamps			
.3	瞭解在有濕氣或潮濕之狀況下電擊之風險較大 Understand risk of shock is greater in damp or humid conditions			

						- 95 -
.4	證明具有在危險區域安全使用電力設備之知 識 Demonstrate knowledge of safe use of electrical equipment for use in hazardous areas					
.5	示範使用測氧計檢查可能有危險之空間 Demonstrate use of oxygen meter for checking spaces that may be at risk			XXX		
.6	對有缺點或受損之電機設備、接頭或電纜提 出報告 Report defective or damaged electrical equipment, connectors or cables		Z			
13.2	安全工作做法與人員在船安全之工作知識,包括:上鎖/加籤 Working knowledge of safe working practices and personal shipboard safety, including: Lockout/tag-out			隨時遵循用保護人員與船舶 之指定程序,隨時遵守安全 工作做法並正確使用適當之 防護設備 Procedures designed to safeguard personnel and the ship are observed at all times. Safe working practices are observed and appropriate safety and protective equipment is correctly used at all times	待 [13.2.1] 到 [13. 後, 由同一船舶不低於擬申請發甲級船員簽署並簽署者必須在所料處留下	自且同部門 養證職務之 查押上日期 付件基本資
.1	tagged and locked and rendered inoperative before any repairs are started	者完成認可後 押日期	ŧ	如果對學員動作不滿意,應(擇	日)重做到滿意再翁	簽署 。
.2	遵照船舶之程序鎖定並加標籤處理電力、機械力、氣押或液押之風險 Follow ship's procedure for locking and tagging to manage electrical, mechanical, pneumatic or hydraulic risks					
13.3	安全工作做法與人員在船安全之工作知識, 包括:機械安全 l Working knowledge of safe working practices shipboard safety, including: Mechanical safety	and perso	nal	隨時遵循用保護人員與船舶 之指定程序,隨時遵守安全 工作做法並正確使用適當之 防護設備 Procedures designed to safeguard personnel and the ship are observed at all times. Safe working practices are observed and appropriate safety	待 [13.3.1] 到 [12.1] 後,由同一船船不低於擬申請發甲級船員簽署並簽署者必須在附	自且同部門 養證職務之 色押上日期 付件基本資

			and protective equipment is correctly used at all times	
.1	應用安全工作實務於使用起重機具 Apply safe working practices in using lifting gear			
.2	對於穩妥固定之機具在啟動前確使作正確之 安全防護 Ensure correct safety guards for appliances are correctly fitted and suitable for use before start- up	施訓者完成認可後 簽名押日期	如果對學員動作不滿意,應(擇	日)重做到滿意再簽署。
.3	瞭解以液力及氣力操作之機械設備所附帶之 風險 Understand hazards associated with hydraulic and pneumatically operated mechanical equipment			
13.4	安全工作做法與人員在船安全之工作知 包括:作業許可制度 Working knowledge of safe working pract shipboard safety, including: Permit to work	tices and personal	隨時遵循用保護人員與船舶 之指定程序,隨時遵守安全 工作做法並正確使用適當之 防護設備 Procedures designed to safeguard personnel and the ship are observed at all times. Safe working practices are observed and appropriate safety and protective equipment is correctly used at all times	待 [13.4.1] 到 [13.4.5] 皆完成後,由同一船舶且同部門不低於擬申請發證職務之甲級船員簽署並押上日期簽署者必須在附件基本資料處留下資料
.1	證明瞭解船舶之作業許可制度 Demonstrate an understanding of the ship's permit to work system 依據工作實務準備工作區域	施訓者完成認可後 簽名押日期	如果對學員動作不滿意,應(擇	日) 重做到滿意再簽署。
.2	Prepare work areas in accordance with safe working practices	双石11 口料	·	
.3	在工作完成後收藏設備工具及剩餘之物料Stow equipment, tools and surplus materials on completion of work			
.4	如對任務或安全事項有任何疑問時請求指導 Seek guidance if in any doubt concerning task or safety matters			
.5	證明瞭解工作完成後 "簽退"之程序 Demonstrate an understanding of the procedure to "sign off" on completion of work			

[13.5]	安全工作做法與人員在船安全之工作知識, 包括:高空作業 l Working knowledge of safe working practices and personal shipboard safety, including: Working aloft		隨時遵循用保護人員與船舶 之指定程序,隨時遵守安全 工作做法並正確使用適當之 防護設備 Procedures designed to safeguard personnel and the ship are observed at all times. Safe working practices are observed and appropriate safety and protective equipment is correctly used at all times	待 [13.5.1] 到 [13.5.3] 皆完成後,由同一船舶且同部門不低於擬申請發證職務之甲級船員簽署並押上日期簽署者必須在附件基本資料處留下資料	
.1	證明具有在高空工作安全工作實務之知識 Demonstrate a knowledge of safe working practices when working at height	施訓者完成認可後	加里料 超 吕 私 <i>化 丁 壮 立 , </i>	口) 丢从到沙屯石ダ罗。	
.2	證明具有在頭頂工作安全工作實務之知識 Demonstrate a knowledge of safe working practices when working overhead	簽名押日期	如果對學員動作不滿意,應(擇日)重做到滿意再簽署。		
.3	瞭解輕便梯、台架與塔樓所附之風險 Understand the risks associated with portable ladders, scaffolds and towers				
[13.6]	安全工作做法與人員在船安全之工作知 包括:在密閉空間內作業 Working knowledge of safe working prac shipboard safety, including: Working alof	在密閉空間內作業 g knowledge of safe working practices and personal		待 [13.6.1] 到 [13.6.4] 皆完成後,由同一船舶且同部門不低於擬申請發證職務之甲級船員簽署並押上日期簽署者必須在附件基本資料處留下資料	
.1	證明具有如何辨識密閉空間之知識 Demonstrate a knowledge of how to recognise an enclosed space	施訓者完成認可後 簽名押日期	如果對學員動作不滿意,應(擇	日)重做到滿意再簽署。	

.2	在進入密閉空間(如進入艙櫃、在艙底板下、驅氣之空間、鍋爐等)前請求工作許可 Seek permit to work before entry into an enclosed space (tank entry; beneath floor plates; scavenge spaces; boilers; etc)				
.3	進入密閉空間一貫採用安全工作實務 Consistently apply safe working practices for entry into enclosed spaces			X3-/L	
.4	說明在發現於密閉空間內之事故時所採取之 行動 State action to take on finding casualty in an enclosed space				
13.7	安全工作做法與人員在船安全之工作知 包括:舉重之技巧與防止背部受傷之方 Working knowledge of safe working pract shipboard safety, including: Lifting technic preventing back injury	法 ices and person		隨時遵循用保護人員與船舶 之指定程序,隨時遵守安全 工作做法並正確使用適當之 防護設備 Procedures designed to safeguard personnel and the ship are observed at all times. Safe working practices are observed and appropriate safety and protective equipment is correctly used at all times	待 [13.7.1] 到 [13.7.2] 皆完成後,由同一船舶且同部門不低於擬申請發證職務之甲級船員簽署並押上日期簽署者必須在附件基本資料處留下資料
.1	示範安全工作實務於人力舉重與搬運 Demonstrate safe working practices in manual lifting and carrying	施訓者完成認可征	後	如果對學員動作不滿意,應(擇	口) 舌似到,甘辛 五 焚 罗 。
.2	示範正確之人力操作技巧 Demonstrate correct manual handling techniques	簽名押日期		, ,	4) 生成判例总计复有。
13.8	安全工作做法與人員在船安全之工作知 包括:化學與生物危害安全 Working knowledge of safe working pract shipboard safety, including: Chemical and biohazard safety	·	al	隨時遵循用保護人員與船舶 之指定程序,隨時遵守安全 工作做法並正確使用適當之 防護設備 Procedures designed to safeguard personnel and the ship are observed at all times. Safe working practices are observed and appropriate safety and protective equipment is	待 [13.8.1] 到 [13.8.6] 皆完成後,由同一船舶且同部門不低於擬申請發證職務之甲級船員簽署並押上日期簽署者必須在附件基本資料處留下資料

			correctly used at all times	
.1	當在下列操作時符合健康、衛生與安全之規定: Comply with health, hygiene and safety requirements when handling: 有害物質 Hazardous substances	施訓者完成認可後 簽名押日期	如果對學員動作不滿意,應(擇	日)重做到滿意再簽署。
.2	污水處理設備 Sewage treatment plant		12677	
.3	醫療廢棄物 Medical waste	4/3		
.4	押載水處理 Water ballast treatment	-A		
.5	當以清潔液、油漆、毒性材料等工作時依照 說明書及防護措施為之 Follow instructions and precautions when working with cleaning fluids, paints, toxic materials etc	施訓者完成認可後 簽名押日期	如果對學員動作不滿意,應(擇	日)重做到滿意再簽署。
.6	瞭解生物危險威脅及人類生命並能在船上發生 Understand that a biological hazard (biohazard) is a threat to human life, and that they can arise on board			
13.9	安全工作做法與人員在船安全之工作知 包括:個人安全設備 Working knowledge of safe working practionshipboard safety, including: Personal safety equipment	隨時遵循用保護人員與船舶 之指定程序,隨時遵守安全 工作做法並正確使用適當之 防護設備 Procedures designed to safeguard personnel and the ship are observed at all times. Safe working practices are observed and appropriate safety and protective equipment is correctly used at all times	待 [13.9.1] 到 [13.9.3] 皆完成後,由同一船舶且同部門不低於擬申請發證職務之甲級船員簽署並押上日期簽署者必須在附件基本資料處留下資料	
.1	請求告知如何正確使用個人安全設備以從事 手邊之任務 Seek advice to use correct personal safety equipment for the tasks in hand	施訓者完成認可後 簽名押日期	如果對學員動作不滿意,應(擇	日)重做到滿意再簽署。

.2	瞭解需要及時對安全設備之缺失與不足提出 報告 Understand the need to report promptly faults or deficiencies in safety equipment			
.3	確認並瞭解禁止、警告、強制與緊急之安全 告示牌之意義 Recognise and understand meaning of prohibition, warning, mandatory and emergency safety signage		X3-71	

第八部分 科目概要表 SECTION 8 TASK SUMMARY CHART

本概要表之目的在提供你、你的公司及你船船長與甲級船員一種指南以繼續檢查你在第六部分及第七所列應完成之各項科目或職責那些尚未完成。對已完成部分於欄內填註完成日期並用斜線刪除。在下表有陰影之方格係表示新一組科目或職責之開始。

The purpose of the summary chart is to provide you, your company and your ships' masters and officers with a guide and continuous check on the numbers of tasks or duties that you have completed (as listed in Section 6, 7), and those that remain outstanding. Tick off only those tasks which you have completed. In the charts below the tinted boxes simply indicate the start of a new group of tasks or duties.

助理級輪機當值 RATINGS FORMING PART OF AN ENGINEERING WATCH

專長 FUNCTION:助理級-輪機工程 Marine Engineering at the Support Level

1.\適任 Competence-助理級輪機當值職責之例行值班 Carry out a watch routine appropriate to the duties of a rating forming part of an engine-room watch

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1.1.1	1,1.2	1.1.3	1.2.1	1.2.2	1.2.3	1.2.4	1.2.5	1.2.6	1.2.7	1.2.8	1.2.9	1.2.10	1.2.11	1.1.12	1.2.13
XXXXX	XXXXX														
1.2.14	1.2.15	1.2.16	1.2.17	1.2.18	1.219	1.2.20	1.2.21	1.2.22	1.2.23	1.2.24	1.2.25	1.2.26	1.2.27	1.2.28	1.2.29
									1						
1.2.30	1.2.31	1.2.32	1.2.33	1.2.34	1.2.35	1.2.36	1.2.37	1.2.38	1.2.39	1.2.40	1.2.41	1.2.42	1.2.43	1.2.44	1.2.45
1.2.46	1.3.1	1.3.2	1.3.3	1.3.4	1.3.5	1.3.6	1.3.7	1.3.8	1.3.9	1.3.10	1.3.11	1.3.12	1.3.13	1.3.14	1.3.15
					,										
1.3.16	1.3.17	1.3.18	1.3.19	1.3.20	1.3.21	1.3.22	1.3.23	1.4.1	1.4.2	1.4.3	1.4.4	1.4.5	1.4.6	1.5.1	1.5.2
1.6.1	1.6.2	1.6.3	1.6.4	1.6.5	1.6.6	1.6.7									

2. 適任 Competence:維持正確水位及蒸汽押力(值鍋爐班者)Maintain the correct levels and steam pressures (for keeping a boiler watch)

2.1.1	2.1.2	2.1.3	2.1.4	2.1.5	2.1.6	2.1.7	2.1.8	2.1.9	2.1.10	2.1.11	2.1.12	2.1.13	2.1.14	2.1.15

3. 適任 Competence:操作緊急設備及應用緊急程序 Operate emergency equipment and apply emergency procedures

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	3.1.1	3.1.2	3.1.3	3.1.4	3.1.5	3.1.6	3.1.7	3.1.8	3.1.9	3.1.10	3.1.11	3.1.12	3.1.13	3.1.14	3.1.15	3.1.16
	3.1.17	3.1.18	3.1.19	3.1.20	3.1.21	3.1.22	3.1.23	3.2.1	3.2.2	3.2.3	3.2.4	3.3.1	3.3.2	3.3.3	3.3.4	3.3.5
	3.3.6	3.3.7	3.3.8	3.3.9	3.3.10	3.3.11	3.3.12	3.3.13	3.3.14	3.3.15	3.3.16	3.3.17	3.3.18	3.3.19	3.3.20	
İ																

輪機助理員 ABLE SEAFARER ENGINE

專長 FUNCTION:助理級-輪機工程 Marine Engineering at the Support Level

4. 適任 Competence:致力於安全輪機當值 Contribute to a safe engineering watch

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	4.1.1	4.1.2	4.1.3	4.1.4	4.2.1	4.2.2	4.2.3	4.2.4	4.2.5	4.2.6	4.2.7 4.2.8	4.2.9	4.3.1	4.3.2	4.3.3
	4.3.4	4.3.5	4.3.6	4.3.7	4.3.8	4.3.9									

5. 適任 Competence: 致力於機艙當值之監控 Contribute to the monitoring and controlling of an engine-room watch

5.1.1	5.1.2	5.1.3	5.1.4	5.1.5	5.1.6	5.1.7	5.1.8	5.1.9	5.1.10	5.1.11	5.1.12	5.1.13	5.1.14	5.1.15	5.1.16
5.1.17	5.1.18	5.1.19	5.1.20	5.1.21	5.1.22	5.1.23	5.1.24	5.1.25	5.1.26	5.1.27	5.1.28	5.1.29	5.1.30	5.1.31	5.2.1
5.2.2	5.2.3	5.2.4	5.2.5	5.2.6	5.2.7	5.2.8	5.2.9	5.2.10	5.2.11	5.2.12	5.2.13	5.2.14	515	5.2.16	5.2.17
5.2.18	5.2.19	5.2.20	5.2.21	5.2.22	5.2.23				•		•	•	•		

6. 適任 Competence:致力於加燃油與駁油作業 Contribute to fuelling and oil transfer operations

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6.1.1	6.1.2	6.1.3	6.1.4	6.1.5	6.2.1	6.2.2	6.2.3	6.3.1	6.3.2	6.3.3	6.3.4	6.4.1	6.4.2	6.5.1	6.5.2
6.5.3	6.5.4	6.5.5				•	•	•	•		•		•		

7. 適任 Competence: 致力於艙底水與押載水作業 Contribute to bilge and ballast operations

7.1.1	7.1.2	7.1.3	7.1.4	7.1.5	7.2.1	7.2.2	7.2.3	7.2.4

8. 適任 Competence: 致力於設備與機械之安全操作 Contribute to the safe operation of equipment and machinery

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	8.1.1	8.1.2	8.1.3	8.1.4	8.1.5	8.1.6	8.1.7	8.1.8	8.1.9	8.1.10 8.1.1	8.2.1	8.2.2	8.2.3	8.2.4	8.2.5
											R				
	8.3.1	8.3.2	8.3.3	8.3.4	8.3.5	8.3.6	8.4.1	8.4.2	8.4.3	YA	(2)				

專長 FUNCTION:助理級-電機、電子及控制工程 Electrical, Electronic and Control Engineering at the Support Level

9. 適任 Competence: 電機設備之安全使用 Safe use of electrical equipment

			4-2C104 -	21 C											
9.1.1	9.1.2	9.1.3	9.1.4	9.1.5	9.1.6	9.1.7	9.2.1	9.2.2	9.2.3	9.3.1	9.3.2	9.4.1	9.4.2	9.4.3	9.4.4
										7					
				I I											
9.4.5	9.4.6	9.4.7	9.4.8	9.4.9	9.4.10	9.5.1	9.5.2	9.5.3							

專長 FUNCTION: 助理級-保養及維修 Maintenance and Repair at the Support Level

10. 適任 Competence:致力於船上之保養及維修 Contribute to shipboard maintenance and repair

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10.1.1	10.1.2	10.1.3	10.1.4	10.1.5	10.1.6	10.2.1	10.2.2	10.2.3	10.2.4	10.2.5	10.2.6	10.2.7	10.2.8	10.2.9	10.2.10
						Ì									
10.2.11	10.3.1	10.3.2	10.3.3	10.3.4	10.4.1	10.4.2	10.4.3	10.4.4	10.4.5	10.4.6	10.4.7	10.4.8	10.4.9	10.4.10	10.4.11
10.4.12	10.4.13	10.4.14	10.4.15	10.4.16	10.4.17	10.4.18	10.4.19	10.4.20	10.4.21	10.4.22	10.4.23	10.4.24	10.4.25	10.4.26	10.4.27
10.420	10.420	10.420	10.4.21	10.4.20	10.4.22	10.4.2.4	10.425	10.426	10.4.27	10.4.20	10.4.20	10 4 40	10 4 41	10.4.40	10.5.1
[10.4.28]	10.4.29	10.4.30	10.4.31	10.4.32	10.4.33	10.4.34	10.4.35	10.4.36	10.4.37	10.4.38	10.4.39	10.4.40	[10.4.41]	10.4.42	10.5.1
10.5.2	10.5.3	10.5.4	10.5.5	10.5.6	10.6.1	10.6.2	10.6.3	10.6.4	10.7.1						
10.5.2	10.5.5	10.5.4	10.5.5	10.5.0	10.0.1	10.0.2	10.0.3	10.0.4	10.7.1						

專長 FUNCTION: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 Support Level

11. 適任 Competence: 致力於物料處理 Contribute to the handling of stores

11.1.1	11.1.2	11.1.3	11.1.4	11.1.5
			<u> </u>	

12. 適任 Competence: 應用預防措施並致力於防止海洋環境之污染 Apply precautions and contribute to the prevention of pollution to the marine environment

marme em	VII OIIIIICI	110													
12.1.1	12.1.2	12.1.3	12.1.4	12.1.5	12.2.1	12.2.2	12.2.3	12.2.4	12.2.5	12.2.6	12.2.7	12.2.8	13.3.1	13.3.2	13.3.3
13.3.4	13.3.5	13.3.6	13.3.7	13.3.8	13.3.9	13.3.10	13.3.11	4/							

13. 適任 Competence: 應用職業健康與安全之預防措施 Apply occupational health and safety precautions

							1 /	A .			1				
13.1.1	13.1.2	13.1.3	13.1.4	13.1.5	13.1.6	13.2.1	13.2.2	13.3.1	13.3.2	13.3.3	13.4.1	13.4.2	13.4.3	13.4.4	13.4.5
13.5.1	13.5.2	13.5.3	13.6.1	13.6.2	13.6.3	13.6.4	13.7.1	13.7.2	13.8.1.	13.8.2	13.8.3	13.8.4	13.8.5	13.8.6	13.9.1
12.00	12.0.2														

項目帶框者為舊版本所無

- 105 -

- (1) 訓練紀錄簿於 A 輪填寫完成,由 A 輪輪機長填寫總結報告。
- (2) 訓練紀錄簿分別於 A 輪及 B 輪填寫完成,則由 B 輪輪機長填寫總結報告。

第九部份 總結報告 SECTION 9 Final Report (正本)

申請助理級輪機當值適任證書

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學員姓名 Full Name	如前	出生年月日 Date of Birth	如前	船員服務手冊字 Seaman's Registration	on 如 角	•
適任證書等級、級別及編號 Capacity of competency certificate and No.	不需填寫	適任證書有效期限 Valid Until.	不需填寫	紀錄簿起迄時間 Period of Record book	起 From 迄 結束日期, 輪機長簽署 告之日期	不得晚於
輪機長評定意見 Evaluating co 此欄由最後經手輪機長填寫			加蓋"公司章"。軟 應併同檢附輪機士	品章而船已離港且船 論機長則可由其他適係 長適任證書及所屬公 委託書予航務中心審	E輪機長代為簽 司出具委託輪機	署,船員
	輪機長意見內容應含「適任」、「勝任」或「建議發證」 (Qualified, Competent)等類似詞語。				船章	
船公司評定意見 Evaluating co 此欄由最後經手公司填寫 公司意見務必寫明「建請或 for promotion」			簽名 Signature	日期 公司 Date	公司章	
航政機關評定意見 Evaluating 由官方填寫部分(請勿填入任					航務中心專用章	Ť
		簽名 Signat	ure	日期 Date	蓋戳章 Stamp	

註:請使用複寫紙製作副本。

紀錄簿編號 (Series No): ESTR



第九部份 總結報告 SECTION 9 Final Report (副本)

申請助理級輪機當值適任證書

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學員姓名 Full Name	如前	出生年月日 Date of Birth	如前	船員服務手册 Seaman's Regis		如前
適任證書等級、級別及編號 Capacity of competency certificate and No.	不需填寫	適任證書有效期限 Valid Until.	不需填寫	紀錄簿起迄 Period o Record bo	f	起 From 迄 To 訓練 結束日期,不得晚於 輪機長簽署總結報 告之日期
輪機長評定意見 Evaluating 此欄由最後經手輪機長填寫 輪機長意見內容應含「適任 (Qualified, Competent)等類	·」、「勝任」或「建	7/	加蓋"公司章"。 應併同檢附輪機	輪機長則可由其何	也適任輪 圖公司查 審章 ■	離船者權衡之計得機長代為簽署,船員具委託輪機長簽署
船公司評定意見 Evaluating 此欄由最後經手公司填寫公司意見務必寫明「建請或for promotion」			簽名 Signature	日期 Date	公司章	公司章
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X		簽名		日期		蓋戳章
		Signat	ure	Date		Stamp

註:請使用複寫紙製作副本。

紀錄簿編號 (Series No): ESTR

若該船員於A輪服務315日,B輪服務53日。

- (1) 訓練紀錄簿於 A 輪填寫完成,由 A 輪輪機長填寫總結報告。
- (2) 訓練紀錄簿分別於 A 輪及 B 輪填寫完成,則由 B 輪輪機長填寫總結報告。

第九部份 總結報告 SECTION 9 Final Report (正本)

申請輪機助理員適任證書

	TE	月十四八双四十三只	人地江西百				
學員姓名 Full Name	如前	出生年月日 Date of Birth	如前	船員服務 Seaman's R		如前	
適任證書等級、級別及編號 Capacity of competency certificate and No.	不需填寫	適任證書有效期限 Valid Until.	不需填寫	紀錄簿起 Perio Record	od of	起 From 迄 To 和 結束日期,不得 輪機長簽署總統 告之日期	晚於
輪機長評定意見 Evaluating e 此欄由最後經手輪機長填寫 輪機長意見內容應含「適任			加蓋"公司章"。 應併同檢附輪機 並經雙方簽章之	輪機長則可由 幾長適任證書及 之委託書予航務	其他適任輪 所屬公司出 中心審查。	離船者權衡之計 機長代為簽署, 以具委託輪機長簽	船員
(Qualified, Competent)等類			簽名 Signature	日期 Date	船章	船章	
船公司評定意見 Evaluating (此欄由最後經手公司填寫	competence by com	pany	7				
公司意見務必寫明「建請或 for promotion」	薦舉航政機關發證	Recommend	簽名 Signature	日期 Date	公司章	公司章	
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		簽名		日期		蓋戳章	
		Signa	ture	Date		Stamp	

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- 108 -



第九部份 總結報告 SECTION 9 Final Report (副本)

申請輪機助理員適任證書

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學員姓名 Full Name	如前	出生年月日 Date of Birth	如前	船員服務手冊字號 Seaman's Registration	40 10
適任證書等級、級別及編號 Capacity of competency certificate and No.	不需填寫	適任證書有效期限 Valid Until.	不需填寫	紀錄簿起迄時間 Period of Record book	起 From 迄 To 訓練 結束日期,不得晚於 輪機長簽署總結報 告之日期
輪機長評定意見 Evaluating o 此欄由最後經手輪機長填寫 輪機長意見內容應含「適任 (Qualified, Competent)等類	」、「勝任」或「建	-A	加蓋"公司章"。軟 應併同檢附輪機-	H章而船已離港且船員 A機長則可由其他適任 長適任證書及所屬公司 委託書予航務中心審查 日期 船章 Date	輪機長代為簽署,船員 出具委託輪機長簽署
船公司評定意見 Evaluating o 此欄由最後經手公司填寫 公司意見務必寫明「建請或	competence by comp		kk n	日期 公司 Date	
for promotion」 航政機關評定意見 Evaluatin 由官方填寫部分(請勿填入任		ministration			航務中心專用章
		簽名 Signat	ure	日期 Date	蓋戳章 Stamp

註:請使用複寫紙製作副本。

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