
	SEAFARERS TRAINING CENTER	M-CEOS(I)-29
	CHIEF ENGINEER OFFICER AND SECOND ENGINEER OFFICER	REV. 02 - 2015

SEAFARERS TRAINING CENTER INC



***UPGRADING COURSE FOR
CHIEF ENGINEER OFFICER AND
SECOND ENGINEER OFFICER
(FIRST ENGINEER OFFICER) ON
SHIPS OF PROPULSIVE POWER
MORE THAN 3000 KW
(MANAGEMENT LEVEL).***

(Regla III/2, sección A-III/2 y Tabla A-III/2).

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COURSE OBJECTIVE

This course comprises four functions at the management level. On successful completion of the course and the requisite watch keeping experience, officers will be prepared for taking full responsibility for the safety of the ship, its passengers, crew and cargo. They will be aware of their obligations under international agreements and conventions concerning safety and the protection of the marine environment and will be prepared for taking the practical measures necessary to meet those obligations.

In this course, one combined course has been written for both chief engineer officer and second engineer officer. The material is set out so that it can be run separately from the course for officer in charge of an engineering watch, but this is not intended to imply that it has to be run separately. It has been written in this manner so as to give Administrations the opportunity to arrange a structure best suited to their needs.


The teaching schemes should be carefully scrutinized to ensure that all of the tabulated training outcomes are covered, that repetition is avoided and that essential underpinning knowledge at any stage has already been covered. A certain amount of duplication under different subjects will probably occur, provided it is not excessive, the different approaches can provide useful reinforcement of work already learned. Care should be taken to see that items not included in the syllabus or treatment beyond the depth indicated by the objectives have not been introduced except where necessary to meet additional requirements of the Administration.

ENTRY STANDARDS

Entrants should have successfully completed a course covering the minimum standards required for certification as officer in charge of an engineering watch in a manned engine-room or designate duty engineer in a periodically unmanned engine-room (see IMO model course 7.04, Officer in charge of an engineering watch).


COURSE INTAKE LIMITATIONS

Class sizes should be limited to not more than 24 in order to allow the instructor to give adequate attention to individual trainees. Larger numbers may be admitted if extra staff and tutorial periods are provided to deal with trainees on an individual basis. In addition, for scheduling access to learning facilities and equipment, attention to strict time management is necessary. In large classes students should have their own reference books, unless sufficient copies can be provided in a central library. Classrooms should be big enough to seat all students so they can see and hear the instructor.

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During practical sessions and group activities, there will be additional restraints on class size. Where applicable, a recommendation on class size is contained in the framework for each of the individual functions.

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COURSE FRAMEWORK FOR ALL FUNCTIONS

AIMS

This course aims to meet the mandatory minimum requirements for knowledge, understanding and proficiency in table A-III/2 of STCW Code for the function Marine Engineering at the Management Level, for the function Electrical, Electronic and Control Engineering at the Management Level, for the function Maintenance and Repair at the Management Level and the background knowledge to support Controlling the Operation of the Ship and Care for Persons on Board at the Management Level.

OBJECTIVE

Function 1

The syllabus covers the requirements of the 2010 STCW Convention, chapter III, section A-III/2. This functional element provides the detailed knowledge to support the training outcomes related to Marine Engineering at the Management Level.

This section provides the background knowledge to support the tasks, duties and responsibilities in:


- Managing the operation of propulsion plant machinery
- Planning and scheduling operations Theoretical knowledge
- Operation, surveillance, performance assessment and maintaining safety of propulsion plant and auxiliary machinery Practical knowledge
- Managing fuel, lubrication and ballast operations.

Function 2

The syllabus covers the requirements of the STCW Convention, chapter III, section A-III/2. This functional element provides the detailed knowledge to support the training outcomes related to Electrical, Electronic and Control Engineering at the Management Level.

This section provides the background knowledge to support the tasks, duties and responsibilities in:

- Managing operation of electrical and electronic control equipment Theoretical knowledge

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- Managing troubleshooting and restoration of electrical and electronic control equipment to operating condition Practical knowledge

Function 3

The syllabus covers the requirements of the STCW Convention, chapter III, section A-III/2. This functional element provides the detailed knowledge to support the training outcomes related to Maintenance and Repair at the Management Level.

This section provides the background knowledge to support the tasks, duties and responsibilities in:

- Managing safe and effective maintenance and repair procedures
- Detecting and identifying the cause of machinery malfunctions and correct faults Practical knowledge
- Ensuring safe working practices Practical knowledge


Function 4

The syllabus covers the requirements of the STCW Convention, chapter III, section A-III/2. This functional element provides the detailed knowledge to support the training outcomes related to Controlling the Operation of the Ship and Care for Persons on Board at the Management Level.

This section provides the background knowledge to support the tasks, duties and responsibilities in:

- Controlling trim, stability and stress
- Monitoring and controlling compliance with legislation to ensure safety of life at sea and protection of the marine environment
- Maintaining safety and security of crew and passengers and the operational condition of safety systems
- Developing emergency and damage control plans and handling emergency situations
- Using leadership and managerial skills.

These include topics such as ship construction and stability, search and rescue, personnel management and contingency planning.

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ENTRY STANDARDS

This course is principally intended for officers for certification as chief engineer and second engineer on ships powered by main propulsion machinery of 3000 Kw propulsion power or more. Entrants should have successfully completed a course covering the minimum standards required for certification as officer in charge of an engineering watch (see IMO model course 7.04, Officer in charge of an engineering watch) and have approved seagoing service (see STCW regulation III/2). For those officers who want to take up the steam propulsion module it is recommended that they have practical experience onboard steam powered vessels.

COURSE CERTIFICATE

On successful completion of the course and assessments, a document may be issued certifying that the holder has successfully completed a course of training which meets or exceeds the level of knowledge and competence specified in table A-III/2 of STCW Code, for the function.

A certificate may be issued only by centres approved by the Administration.


STAFF REQUIREMENTS

Instructors shall be qualified in the task for which training is being conducted and have appropriate training in instructional techniques and training methods (STCW Code Section AI/6). As well as instructors, additional staff will be required for the maintenance of machinery and equipment and for the preparation of materials, work areas and supplies for all practical work.

TEACHING FACILITIES AND EQUIPMENT

A classroom equipped with an overhead projector and a blackboard or whiteboard or interactive board or flipchart should be provided for teaching the theory of the course and holding group discussions.

Administrations may wish to consider the provision of a large workshop, equipped to facilitate all of the engineering practice, in a single space. Such an arrangement can be quite efficient in the use of staff, materials, stores, tools, etc.

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TEACHING AIDS (A)

A1 Instructor Manual (Part D of this course)

A2 Ship's Drawings / Plan (GA, Shell expansion, Deck plan and Mid section)

A3 Videos (DVDs), CD-ROMs, CBT's (V)

V1 DIESEL ENGINE CRANKCASE LUBRICATING OILS Code No: 126

V2 HANDLING & TREATMENT OF HEAVY FUELS Code No: 143

V3 INTERNAL CARE OF MARINE BOILERS Code No: 150

V4 HYDRAULIC OIL CONTAMINATION Code No: 166

V5 DIESEL FUEL INJECTION PUMPS Code No: 302

V6 MICROBIAL PROBLEMS IN FUELS Code No: 322

V7 PRINCIPLES OF LUBRICATION & GENERAL APPLICATION Code No:

442

V7A LUBRICATION, SLOW & MEDIUM SPEED MARINE DIESEL ENGINES
Code No: 443

V8 LUBRICATION OF ANCILLARY EQUIPMENT - PART 3 Code No: 444

V9 MACHINERY ALARMS & PROTECTION DEVICES Code No: 528

V10 FUEL OIL BURNER THEORY AND DIAGNOSTICS Code No: 604

V11 AN INTRODUCTION TO HYDRAULICS Code No: 66

V12 EFFICIENT OPERATION OF MARINE DIESEL ENGINES Code No: 693

V13 SHIP'S ELECTRICAL SYSTEMS - SAFETY AND MAINTENANCE Code
No: 665

V14 ELECTRICAL DISTRIBUTION Code No: 666

V15 GENERATORS AND MAIN CIRCUIT BREAKERS Code No: 667

V16 MOTORS AND STARTERS Code No: 668

V17 ANCILLARY ELECTRICAL SERVICES Code No: 669

V18 SPECIAL ELECTRICAL PRACTICE FOR OIL, GAS & CHEMICAL
TANKERS Code No: 670

V19 ELECTRICAL SURVEY REQUIREMENTS Code No: 671

V20 ELECTRIC PROPULSION AND HIGH VOLTAGE PRACTICE Code No:
672

V21 MARPOL ANNEX VI - PREVENTION OF AIR POLLUTION FROM SHIPS
(Ed Code No: 1119

V22 FIGHTING POLLUTION - PREVENTION OF POLLUTION FROM SHIPS
EDIT Code No: 1122

V23 CRISIS MANAGEMENT Code No: 507

V24 FIRE PARTY OPERATIONS Code No: 509

V25 THE INTERNATIONAL SAFETY MANAGEMENT CODE Code No: 524

V26 LOAD LINE SURVEYS - PART 1 Code No: 544


V27 SAFETY CONSTRUCTION SURVEY - PART 2 Code No: 545

V28 SAFETY EQUIPMENT SURVEY - PART 3 Code No: 546

V29 PERSONAL SAFETY IN THE ACCOMMODATION Code No: 554

V30 PERSONAL SAFETY ON DECK Code No: 555

V31 PERSONAL SAFETY IN THE ENGINE ROOM Code No: 556


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- V32 PERSONAL SAFETY ON BULK CARRIERS Code No: 558
V33 PERSONAL SAFETY ON GENERAL CARGO SHIPS Code No: 559 V34
PERSONAL SAFETY ON CONTAINER SHIPS Code No: 560
V35 PERSONAL SAFETY ON CAR CARRIERS & RORO'S Code No: 562
V36 PERSONAL SAFETY ON PASSENGER SHIPS Code No: 563
V37 THE SHIPBOARD MANAGEMENT ROLE (EDITION 2) Code No: 969
V38 PERSONAL SAFETY ON TANKERS (EDITION 2) Code No: 970
V39 PERSONAL SAFETY ON CHEMICAL TANKERS Code No: 980
V40 THE ISM AUDIT Code No: 575
V41 BUNKERING OPERATIONS - SAFE OIL TRANSFER PROCEDURES
Code No: 588
V42 MARINE RISK ASSESSMENT-THE FLEET Code No: 735
V43 MANAGEMENT ON BOARD - PART 1 Code No: 607
V44 GET SMART: ORGANISATION AND PLANNING - PART 2 Code No: 608
V45 GET RESULTS: PLANNING FOR PROFIT - PART 3 Code No: 609
V46 TEAMWORK - PART 4 Code No: 610
V47 MOTIVATING INDIVIDUALS - PART 5 Code No: 611
V48 COMMUNICATION - PART 6 Code No: 612
V49 PERMIT TO WORK Code No: 621
V50 SEVEN STEPS TO SHIP STABILITY PART 1 Code No: 622
V51 SEVEN STEPS TO SHIP STABILITY PART 2 Code No: 623
V52 WASTE AND GARBAGE MANAGEMENT Code No: 627
V53 MACHINERY SPACE FIRES (EDITION 3) Code No: 677
V54 ENCLOSED LIFEBOATS, FREEFALL LIFEBOATS RESCUE BOATS
Code No: 679
V55 ENTERING INTO ENCLOSED SPACES (EDITION 2) Code No: 682
V56 OPERATIONS & PERSONAL SAFETY IN DRY DOCKS & REPAIR
YARDS Code No: 692
V57 BALLAST WATER MANAGEMENT Code No: 698
V58 CREW RESOURCE MANAGEMENT - ENGINE ROOM Code No: 929
V59 PORT STATE CONTROL Code No: 821

Available from: Videotel Marine International
84 Newman Street, London W1T 3EU, UK
Tel: +44(0) 20 72991800
Fax: +44(0) 207299 1818
E-mail: mail@videotelmail.com
URL: www.videotel.co.uk

V60 BALLAST WATER MANAGEMENT - WHAT YOU REALLY NEED TO KNOW

Available from: Walport International Ltd,
Riverside Business Centre,
Fort Road, Tilbury, Essex, RM18 7ND, United Kingdom
Telephone: +44 (0)1375 489 790
Fax: +44 (0)1375 489 794

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Email: sales@walport.com

URL: www.walport.com

- V61 REMOTE CONTROL SYSTEM, AUTOCHIEF 4 (CBT #0019)
- V62 OPERATION OF GENERATORS (CBT #0041)
- V63 AUTOMATION, VISCOSITY CONTROL (CBT # 0083)
- V64 INERT GAS GENERATOR (CBT # 0007)
- V65 FUELGAS PLANT (CBT # 0008)
- V66 FUELOIL SYSTEM (CBT # 0009)
- V67 MARINE FUEL HANDLING (CBT # 0010)
- V68 STEERING GEAR (CBT # 0017)
- V69 COOLING SYSTEM (CBT # 0018)
- V70 AUXILIARY ENGINE (CBT # 0024)
- V71 MARINE LUBRICANTS (CBT # 0030)
- V72 AC4, DIGITAL GOVERNOR SYSTEM (CBT # 0034)
- V73 BILGE WATER SEPARATOR (CBT # 0043)
- V74 AUXILIARY BOILER PLANT (CBT # 0046)
- V75 FUEL COMBUSTION EFFICIENCY (CBT # 0047)
- V76 BASIC REFRIGERATION THEORY (CBT # 0069)
- V77 BASIC HYDRAULICS (CBT # 0072)
- V78 SULZER MEDIUM SPEED DIESEL ENGINE (CBT # 0074)
- V79 PUMPS AND PUMPING OPERATIONS (CBT # 0078)
- V80 INCINERATORS (CBT # 0091)
- V81 FLEXINERT GAS GENERATOR (CBT # 0094)
- V82 ENERGY CONSERVATION (CBT # 0097)
- V83 FRESH WATER GENERATOR (CBT # 0098)
- V84 AC4 SULZER DENIS 1 (CBT # 0110)
- V85 AC4 MAN B AND W (CBT # 0116)
- V86 STEERING GEAR, RAM TYPE (CBT # 0118)
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- V94 RISK ASSESSMENT AND MANAGEMENT (CBT # 0123)
- V95 HOTWORK (CBT # 0125)
- V96 ENCLOSED SPACE ENTRY (CBT # 0127)

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V98 ENCLOSED SPACE ENTRY -PERILS & PRECAUTIONS
V99 ENCLOSED LIFEBOAT-ON LOAD RELEASE GEAR
V100 FREE FALL LIFE BOATS "RELEASE MECHANISM

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IMO/ILO/WHO references (R)

R1 SOLAS (Consolidated Edition, 2009) Code IE110E ISBN 978-92-801-150
R2 ILO/IMO/WHO INTERNATIONAL MEDICAL GUIDE FOR SHIPS (3rd Edition) Code I115E ISBN 978-92-415-47208
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R7 INTERNATIONAL CODE OF SAFETY FOR HIGH-SPEED CRAFT, 2000 (2000 HSC Code) (2008 Edition) Code IA185E ISBN 978-92-801-42402
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R32 GUIDELINES ON THE CONVENTION ON THE PREVENTION OF MARINE POLLUTION BY DUMPING OF WASTES AND OTHER MATTER, 1972 (2006 Edition) Code I531E ISBN 978-92-801-51503

R33 INTERNATIONAL CONVENTION ON OIL POLLUTION PREPAREDNESS, RESPONSE AND CO-OPERATION, 1990 (OPRC) (1991 Edition) Code I550E ISBN 978-92-801-12672

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R62 ASSEMBLY RESOLUTIONS on CD, Version 9 (2010) Code D026E ISBN 978-92-801-70320

R63 INTERNATIONAL HEALTH REGULATIONS (2005).SECOND EDITION (GENEVA, WORLD HEALTH ORGANIZATION, 2008), ISBN 9789241580410

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R64 COMPENDIUM OF MARITIME LABOUR INSTRUMENTS (2008 EDITION) (INTERNATIONAL LABOUR OFFICE, GENEVA) ISBN 978-92-2-120612-5

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Textbooks (T)

T1 REED'S VOLUME 2: APPLIED MECHANICS FOR ENGINEERS; BY WILLIAM EMBLETON; REVISED BY J. T. GUNN; PUBLISHER: SUNDERLAND [TYNE AND WEAR]: THOMAS REED, 1983; ISBN: 0900335874

T2 REED'S 3: APPLIED HEAT FOR ENGINEERS; EMBLETON, WILLIAM AND JACKSON, LESLIE;

T3 REED'S VOLUME 4: NAVAL ARCHITECTURE FOR MARINE ENGINEERS; E. A. STOKOE; ISBN: 9780947637859

T4 REED'S VOLUME 5: SHIP CONSTRUCTION FOR MARINE STUDENTS, E.A. STOKOE; ISBN 9780713671780

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