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MODEL
COURSE 1.23

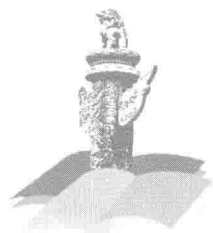
精通救生艇筏和 除快速救助艇以外的救助艇

PROFICIENCY IN SURVIVAL CRAFT AND
RESCUE BOATS OTHER THAN FAST RESCUE BOATS (2000)

中华人民共和国海事局 **译**



大连海事大学出版社
DALIAN MARITIME UNIVERSITY PRESS



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《精通救生艇筏和除快速救助艇以外的救助艇》

翻 译： 卫桂荣
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Foreword

Since its inception the International Maritime Organization (IMO) has recognized the importance of human resources to the development of the maritime industry and has given the highest priority to assisting developing countries in enhancing their maritime training capabilities through the provision or improvement of maritime training facilities at national and regional levels.

Following the adoption of the International Convention on Standards of Training, Certification and Watchkeeping for Seafarers, 1978 (STCW), as amended, IMO has developed model training courses to assist Member States in the effective implementation of the Convention and in achieving a uniform global transfer of information and guidance to enhance the skills and competence of training providers. Model courses significantly assist trainers and instructors to improve the standard and quality of their existing courses and enhance the implementation of the standards prescribed by the STCW Convention.

Furthermore, Member Governments have recognized that a comprehensive set of model courses in various fields of maritime training help to supplement the standard of instruction provided by maritime academies and allow seafarers, administrators and other technical specialists employed in maritime administrations, ports and shipping companies to improve their knowledge and enhance their skills and competence in related specialized fields. With the generous assistance of donors, IMO has developed a range of model courses in response to these generally identified needs. Model courses are updated through a regular revision process, taking into account any amendments to the requirements prescribed in IMO instruments, any technological developments in the field, and modern methodology in delivering training.

These model courses may be used by any training institution in developing training programmes to effectively implement related IMO instruments.

Koji Sekimizu

Secretary-General

前 言

国际海事组织(IMO)自成立伊始就认识到人力资源在海运业发展中的重要性,并最优先考虑通过
在国家和地区层面上提供或改善培训设备来帮助发展中国家增强其海事培训能力。

在经修正的《1978 年海员培训、发证和值班标准国际公约》(STCW)通过之后,IMO 即编写了示范
培训课程,以便在有效实施该公约方面以及在全球取得信息和指导的统一传播方面帮助各成员
国,提升培训提供方的技能和能力。示范课程明显有助于培训师和教员改善现有课程的标准和质
量,并提升了对 STCW 公约所规定标准的实施。

此外,成员国政府已经认识到,海事培训诸多领域中的一套综合性课程有助于对海事院校的授课
标准加以补充,并允许海员、行政管理人员以及其他在海事行政机关、港口和航运公司工作的技
术专家增长知识并提升其在相关专业领域中的技能和能力。在捐助者的慷慨帮助下,IMO 编写
了一系列示范课程,以应对那些普遍被发现的需求。示范课程通过定期修订程序得以更新,同时
兼顾对 IMO 文件中规定要求的任何修订、在该领域中的技术进步以及实施培训中的现代方法。

任何培训机构在制订培训计划时可以使用这些示范课程,以便有效实施 IMO 的相关文件。

关水康司

秘书长

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1.23 MODEL COURSE

Introduction

■ Purpose of the model courses

The purpose of the IMO model courses is to assist maritime training institutes and their teaching staff in organizing and introducing new training courses, or in enhancing, updating or supplementing existing training material where the quality and effectiveness of the training courses may thereby be improved.

It is not the intention of the model course programme to present instructors with a rigid “teaching package” which they are expected to “follow blindly”. Nor is it the intention to substitute audio-visual or “programmed” material for the instructor’s presence. As in all training endeavours, the knowledge, skills and dedication of the instructor are the key components in the transfer of knowledge and skills to those being trained through IMO model course material.

Because educational systems and the cultural backgrounds of trainees in maritime subjects vary considerably from country to country, the model course material has been designed to identify the basic entry requirements and trainee target group for each course in universally applicable terms, and to specify clearly the technical content and levels of knowledge and skill necessary to meet the technical intent of IMO conventions and related recommendations.

■ Use of the model course

To use the model course the instructor should review the course plan and detailed syllabus, taking into account the information provided under the entry standards specified in the course framework. The actual level of knowledge and skills and prior technical education of the trainees should be kept in mind during this review, and any areas within the detailed syllabus which may cause difficulties because of differences between the actual trainee entry level and that assumed by the course designer should be identified. To compensate for such differences, the instructor is expected to delete from the course, or reduce the emphasis on, items dealing with knowledge or skills already attained by the trainees. He should also identify any academic knowledge, skills or technical training which they may not have acquired.

By analysing the detailed syllabus and the academic knowledge required to allow training in the technical area to proceed, the instructor can design an appropriate pre-entry course or, alternatively, insert the elements of academic knowledge required to support the technical training elements concerned at appropriate points within the technical course.

Adjustment of the course objectives, scope and content may also be necessary if in your maritime industry the trainees completing the course are to undertake duties which differ from the course objectives specified in the model course.

Within the course plans, the course designers have indicated their assessment of the time which should be allotted to each learning area. However, it must be appreciated that these allocations are arbitrary and assume that the trainees have fully met all entry requirements of the course. The instructor should therefore review these assessments and may need to reallocate the time required to achieve each specific learning objective.

介绍

■ 示范课程的目的

IMO示范课程的目的是协助海事培训机构及其教学人员组织和引入新的培训课程,提高、更新或补充现有的培训材料,以此改进培训课程的质量和培训效果。

本示范课程计划的意图并不是向教员呈交一个他们期望“盲目遵循”的“教学包”,其意图也不是用视听或“编排的”材料来代替教员的存在。在所有的培训努力中,知识、技能和教员的奉献是向IMO示范课程材料的受训者传授知识和技能的关键构成要素。

由于不同国家接受航海类培训的学员所处的教育体系和文化背景各不相同,所以示范课程采用通用术语设计,可以适应各课程受训目标人群的基本要求,并明确提出了需要满足的IMO有关公约及相关决议案所必需的技术内容、知识和技能的水平。

■ 示范课程的使用

为使用示范课程,教员应当审视课程计划和教学大纲细则,考虑课程框架中规定的入学标准所提供的信息。在审视过程中,应当牢记学员知识和技能的实际水准以及从前的技术教育水平,并应当识别出在教学大纲细则范围内由于学员实际入门水准与课程设计者假定的水准之间的差异,可能引起困难的任何部分。为弥补这些差异,希望教员将涉及学员已经掌握的知识和技能的项目从课程中删去或不做重视。此外,教员应当识别出学员可能还没有掌握的任何学术知识、技能或技术训练。

通过分析教学大纲细则以及技术领域培训所需的学术知识,教员可以设计出适当的预科课程,或者在技术课程中的适当处加入技术课程需要的学术知识。

如果完成该课程的学员在其所处的航海事业中要从事有别于本示范课程规定的课程目标的职责,则可能有必要调整课程的目标、范围和内容。

在课程计划中,课程设计者已经表明了其估计的、应分配给每一个学习部分的时间。但是,必须清楚的是,这些分配是主观的,并假设了学员完全符合本课程的入门要求。因此,教员应当对这些估计进行重新审视而且可能需要重新分配时间以符合每一个特定培训目标的需要。

■ Lesson plans

Having adjusted the course content to suit the trainee intake and any revision of the course objectives, the instructor should draw up lesson plans based on the detailed syllabus. The detailed syllabus contains specific references to the textbooks or teaching material proposed to be used in the course. An example of a lesson plan is shown in the instructor manual on page 92. Where no adjustment has been found necessary in the learning objectives of the detailed syllabus, the lesson plans may simply consist of the detailed syllabus with keywords or other reminders added to assist the instructor in making his presentation of the material.

■ Presentation

The presentation of concepts and methodologies must be repeated in various ways until the instructor is satisfied, by testing and evaluating the trainee's performance and achievements, that the trainee has attained each specific learning objective or training outcome. The syllabus is laid out in learning-objective format and each objective specifies a *required performance* or, *what the trainee must be able to do* as the learning or training outcome. Taken as a whole, these objectives aim to meet the knowledge, understanding and proficiency specified in the appropriate tables of the STCW Code.

■ Implementation

For the course to run smoothly and to be effective, considerable attention must be paid to the availability and use of:

- properly qualified instructors
- support staff
- rooms and other spaces
- equipment
- textbooks, technical papers
- other reference material.

Thorough preparation is the key to successful implementation of the course. IMO has produced a booklet entitled "Guidance on the implementation of IMO model courses", which deals with this aspect in greater detail.

■ Training and the STCW 1995 Convention

The standards of competence that have to be met by seafarers are defined in Part A of the STCW Code in the Standards of Training, Certification and Watchkeeping for Seafarers Convention, as amended in 1995. This IMO model course has been revised and updated to cover the competences in STCW 1995. It sets out the education and training to achieve those standards detailed in Chapter VI, Table A-VI/2-1 of the STCW Code.

Part A provides the framework for the course with its aims and objectives and notes on the suggested teaching facilities and equipment. A list of useful teaching aids, IMO references and textbooks is also included.

■ 教案

在为适应招收的学员以及课程目标的修正而调整课程内容之后,教员应当基于大纲细则拟定教案。大纲细则中有教科书具体的参考书目以及计划用于课程的教学资料。教员手册第93页上标有教案的范例。教案可以包括添加了关键词或提示语的大纲细则,以帮助教员授课,在这种情况下就没有必要调整大纲细则的培训目标。

■ 学员展示

必须以不同的方式反复讲授概念和方法,直到通过试验和评估学员的表现和成绩使教员感到满意;学员已经达到了每一个具体的培训目标或培训效果。教学大纲以培训目标的格式排列编排,而且每个目标规定了技能要求,或者学员必须能做的事情作为学习或培训的效果。从整体上看,这些目标的目的在于满足STCW规则相应表格规定的知识、理解和熟练。

■ 实施

为使课程顺利进行和卓有成效,必须充分注意下列资源的获得和使用:

- 完全合格的教员
- 辅助人员
- 教室或其他场所
- 设备
- 教科书、技术论文
- 其他参考资料

充分的准备是成功实施本课程的关键。IMO已经制定了“IMO示范课程实施指南”,它更加详尽地涉及了这一方面并作为本课程的一个附件包含在本课程中。

■ 培训和STCW 1995公约

船员必须达到的适任标准在《海员培训、发证和值班标准国际公约》(经1995年修正)的STCW规则的A部分中进行了规定。本IMO示范课程已经过修正和更新,覆盖了STCW 1995中的适任能力。它列出了达到STCW规则第VI章表A-VI/2-1中规定的标准所需的教育和培训。

A部分提供了附有目的、目标的课程框架,和对推荐的教学设施和设备的注释。另外它还包含了有用的教具、IMO参考书目和教科书的列表。

Part B provides an outline of lectures, demonstrations and exercises for the course. A suggested timetable is included, but from the teaching and learning point of view, it is more important that the trainee achieves the minimum standard of competence defined in the STCW Code than that a strict timetable is followed. Depending on their experience and ability, some students will naturally take longer to become proficient in some topics than in others. Also included in this section are guidance notes and additional explanations.

A separate IMO model course addresses Assessment of Competence. This course explains the use of various methods for demonstrating competence and criteria for evaluating competence as tabulated in the STCW Code.

Part C gives the detailed teaching syllabus. This is based on the theoretical and practical knowledge specified in the STCW Code. It is written as a series of learning objectives; in other words, what the trainee is expected to be able to do as a result of the teaching and training. Each of the objectives is expanded to define a required performance of knowledge, understanding and proficiency. IMO references, textbook references and suggested teaching aids are included to assist the teacher in designing lessons.

The new training requirements for these competences are addressed in the appropriate parts of the detailed teaching syllabus.

The Convention defines the minimum standards to be maintained in Part A of the STCW Code. Mandatory provisions concerning training and assessment are given in Section A-I/6 of the STCW Code. These provisions cover: qualification of instructors; supervisors as assessors; in-service training; assessment of competence; and training and assessment within an institution. The corresponding Part B of the STCW Code contains non-mandatory guidance on training and assessment.

The criteria for evaluating competence in Table A-VI/2-1 of the STCW Code are to be used in the assessment of the competences listed in the table.

As previously mentioned, a separate model course addresses Assessment of Competence and use of the criteria for evaluating competence tabulated in the STCW Code.

■ Responsibilities of Administrations

Administrations should ensure training courses delivered by colleges and academies are such as to ensure those completing training do meet the standards of competence.

■ Validation

The information contained in this document has been validated by the Sub-Committee on Standards of Training and Watchkeeping for use by technical advisors, consultants and experts for the training and certification of seafarers so that the minimum standards implemented may be as uniform as possible. Validation, in the context of this document, means that the Sub-Committee has found no grounds to object to its content. The Sub-Committee has not granted its approval to the documents, as it considers that this work must not be regarded as an official interpretation of the Convention.

In reaching a decision in this regard, the Sub-Committee was guided by the advice of a Validation Group comprised of representatives designated by ILO and IMO.

B部分提供了课程中讲课、演示和练习的概要。其中包含一个推荐的时间表,但从教和学的角度来看,学员达到STCW规则规定的最低标准的适任能力比严格遵守时间表更加重要。依据其经验和能力的不同,有些学生自然地要在其中一些主题上花费更长的时间才能变得熟练。另外,这部分中还含有指导性说明和附加解释。

一个独立的IMO示范课程专门处理适任能力的评估。该课程阐述了如何使用不同的方法演示STCW规则中列出的适任能力以及评价适任能力的标准。

C部分给出了基于STCW规则规定的理论和实践知识的教学大纲细则。它是按一系列的培训目标编写的,换言之,将期望学员所达到的能力作为教和学的效果。每一个目标被扩展开来去界定所要求的知识、理解和熟练。IMO参考书目、教科书的参考资料以及推荐的教具也包含在内,以便协助教师设计课堂教学。

针对这些适任能力的新的培训要求,教学大纲细则中的相应部分已经过处理。

该公约在STCW规则A部分中规定了要保持在最低标准。有关培训和评估的强制性规定在STCW规则第A- I/6节中载明。这些规定包括:教员的资格;作为评估员的监督员;在职培训;适任能力评估;以及院校内的培训和评估。STCW规则中相应的B部分载有培训和评估的非强制性指南。

评估表中所列的适任性时应适用STCW规则表A-VI/2-1中的适任性评价标准。

如前所述,一个独立的示范课程专门处理适任能力的评估并使用其标准评价STCW规则中列出的适任能力。

■ 行政管理职责

行政管理机关应当保证,由院校开设的培训课程要能保证满足适任标准。

■ 有效性

本文件中载明的信息已被培训和值班标准分委员会确认为有效,可供技术顾问和专家用于船员的培训和发证,以便使所实施的最低标准可以尽可能地得到统一。在本文件中,有效性是指该分委员会还没有找到反对其内容的根据。该分委员会也没有将其权威授予本文件,因为该分委员会认为不应将本文件视为是对公约的官方解释。

在这方面达成共识时,由ILO和IMO指定的代表组成的有效性小组提出的建议对该分委员会给予了指导。

Part A: Course Framework

■ Aims

This model course aims to provide the training for candidates to launch and take charge of a survival craft or rescue boat in emergency situations, in accordance with Section A-VI/2 of the STCW Code.

■ Objective

This syllabus covers the requirements of the 1995 STCW Convention Chapter VI, Section A-VI/2, Table A-VI/2-1. On meeting the minimum standard of competence in survival craft and rescue boats other than fast rescue boats, a trainee will be competent to operate life-saving appliances and take charge of a survival craft or rescue boat during or after launch. They will also be able to operate a survival craft engine and manage survivors and survival craft after abandoning ship. Trainees will know the correct use of all locating devices, including communication and signalling apparatus and pyrotechnics, how to apply first aid to survivors and the actions to take to preserve the lives of those in their charge.

■ Entry standards

For admission to the course, seafarers must be certified by a doctor to be in good health. They must also have completed the four basic courses covering the familiarization and basic safety training and instruction in accordance with Regulation VI/1 of STCW 1995.

■ Course certificate

On successful completion of the course and demonstration of competence, a document may be issued certifying that the holder has met the standard of competence specified in Table A-VI/2-1 of STCW 1995.

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

■ Course intake limitations

The maximum number of trainees attending each session will depend on the availability of instructors, equipment and facilities available for conducting the training. It should not exceed the number of persons which the survival craft to be used is permitted to carry, and should not, at any time, exceed that which will allow sufficient opportunity for each trainee to have adequate practical instruction in procedures for the proper use of systems and equipment.

■ Staff requirements

The instructor shall have appropriate training in instructional techniques and training methods (STCW Code Section A-I/6, paragraph 7).

A部分:课程框架

■ 目的

本示范培训课程的目的按照STCW规则A-VI/2节,向考证学员提供在紧急情况下释放和操作救生艇筏和救助艇的培训。

■ 目标

本课程大纲覆盖STCW1995公约第VI章第A-VI/2节表A-VI/2-1的要求,满足救生艇筏和除快速救助艇以外的救助艇的最低适任标准,学员将胜任救生设备的操作和在释放中或释放之后操作救生艇筏和救助艇,同时还将胜任救生艇筏机器的操作和在弃船后对求生者和救生艇筏的管理。学员将掌握所有定位设备的正确使用方法,包括通信设备、信号设备及烟火信号,掌握对求生者进行急救和维持艇上人员生命的措施。

■ 入学标准

因本课程之需要,参加本课程培训的所有船员必须经体检且合格。他们还应根据STCW1995第VI/1章的规定完成熟悉和基本安全等四门基本课程的培训和指导。

■ 课程证书

经全部完成本课程并表明适任后,培训证明书将被签发以证明持证人满足STCW1995表A-VI/2-1载明的适任标准。

培训合格证书只能由经主管机关认可的培训机构签发。

■ 课程人数限制

培训开班的规模视教员的人数、培训设备和设施的数量而定,以不超过使用的救生艇筏允许的安全定员为限,并且在任何时候不得过多,以确保每个学员有充足的机会,在适当使用系统和设备的程序方面,获得充分的实践训练。

■ 教员要求

从事培训的教员应经过适当的有关教学技能和培训方法的培训(STCW规则第A-I/6节第7段)。