



**STANDAR MINIMUM**  
**MINIMUM STANDARD**

**PROGRAM DIKLAT ANT – II**  
**DECK OFFICER CLASS – II**

BERDASARKAN  
BASED ON

KEPUTUSAN BERSAMA  
JOINT MINISTERIAL DECREE

MENHUB, MENDIKNAS, DAN MENAKERTRANS  
MINISTER OF COMMUNICATIONS, MINISTER OF NATIONAL EDUCATION,  
AND MINISTER OF MANPOWER AND TRANSMIGRATION

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TENTANG  
CONCERNING

SISTEM STANDAR MUTU KEPELAUTAN INDONESIA  
INDONESIAN SEAFARERS QUALITY STANDARD SYSTEM (QSS)

**ANNEX – A Part 1**

Dokumen ini diperlukan oleh para auditor sebagai “referensi audit mutu internal dan eksternal”  
This document is required as “internal and external quality audit reference” by the Auditors

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## **MINIMUM STANDARDS FOR SEAFARER'S EDUCATION AND TRAINING PROGRAMS**

Following standards and guidelines for Maritime Education and Training shall apply to the following courses:

1. Deck Officer Class II (ANT II)
2. Engineer Officer Class II (ATT II)

### **Article 1 Authorization**

Institutes are only authorized to provide that kind of Maritime Education and Training (MET) for which they have received explicit accreditation / authorization from the appropriate authorities of the RI.

### **Article 2 Mission Statement**

The Mission Statement of a MET Institute shall be formulated as such, that it at least addresses the commitment to comply with the appropriate requirements as set forth in the STCW Convention and the National regulations.

### **Article 3 Education and training strategies**

MET Institutes shall possess a Framework Strategic Plan which contains directives and actions that are to be undertaken in order to attain strategic objectives concerning the management, provision and sustainability of maritime education and training and related requirements.

The strategic objectives shall be formulated as such that they are at least in line with the appropriate requirements of the STCW Convention.

With regard to the training strategies, the standards for training methodology and techniques as recommended in the Guidance on the Implementation of the IMO Model Courses and in the respective IMO Model Courses itself shall be observed.

### **Article 4 Organization**

The organizational structure of the training institute shall meet the following criteria:

1. Maritime training programs may be offered by institutions that are offering other degree courses outside the maritime field.
2. To guarantee the quality of the maritime education and training programs the institute shall develop policies and strategies to ensure adequate training and education at all times.
3. The management responsibilities in the organization of the institute, as far as the maritime education and training programs concerned, shall be defined in a clear and transparent manner.
4. In order to administer the maritime training programs:
  - 4.1. There shall be a Maritime Education Office headed by a full time dean to administer the maritime programs.

- 4.2. The dean must possess relevant academic degrees, experiences and credentials as follows:
  - a. Holder of a Management Level Certificate as described in STCW 78 as amended in 1995 and 1997;
  - b. Seagoing experience of at least two years in a management level capacity on board ocean going ships or job experience at Directorate General of Sea Communication/Maritime Industry for five years;
  - c. Holder of a bachelor degree relevant to the maritime education and training programs;
  - d. Two years of teaching experience.
5. In order to guarantee the suitability of infrastructure and the proper functioning of machinery, equipment and apparatus, a "Maintenance Division" (including maintenance plans) shall be incorporated in the institute's organization.
6. An "Internal Assurance Review - Unit" shall be available in order to address:
  - planning, design, presentation and evaluation of programs,
  - teaching, learning and communication activities.

## **Article 5      Instructor requirements**

Requirements for instructors are as follows:

1. Instructors for General Subjects shall possess a diploma for Postgraduate Work or Diploma IV and should teach only subjects of their specialization.
2. Instructors for Professional Subjects on management level as defined in tables A-II/2 and A-III/2 of STCW 78 as amended in 1995 and 1997 shall possess an ANT I or ATT I Certificate.
3. Instructors for Professional Subjects on management level shall have a seagoing experience of at least two years in a management capacity on board ocean going ships of 3,000 GT or 3,000 kW respectively.
4. Instructors for Professional Subjects on management level shall have at least one year teaching experience on operational level subjects.
5. Instructors solely designated to supervise laboratory classes on Professional Subjects are not required to possess an appropriate Certificate of Competence on ANT I or ATT I level. Laboratory instructors shall have professional qualifications and relevant experience in their field of operation.
6. All Professional Subject Instructors shall have successfully completed approved training programs in accordance with the requirements of IMO Model Course 6.09 and IMO Model Course 3.12.
7. Instructors conducting subjects involving the use of simulators must have received appropriate guidance in instructional techniques and have gained practical operational experiences on the particular type of simulator being used.
8. Newly appointed instructors for Professional Subjects shall have completed the required training program in accordance with IMO Model Course 6.09 within 12 months from their appointment. During the 12-month period they are allowed to handle subjects on operational level as assistant instructor under the supervision of a qualified instructor.

## **Article 6      Development program requirements**

To ensure adequate and up-to-date education and training the institute must provide an instructors development program for professional advancement. This program shall be made available to all faculty members and may contain any of the following:

1. Orientation period for new instructors;
2. Scholarship/Fellowship Grants;
3. Tuition Fee Supplement/Discount;
4. In-Service Training;
5. Instructor On-the-Job Training Program.

## **Article 7      Instructors teaching load**

As a general rule, the maximum full-time load of an instructor is 40 hours a week. An instructor with a very satisfactory teaching performance may be allowed to handle six additional hours per week provided that the subject preparation is limited to two.

The maximum number of teaching hours per day shall be limited to 8 hours with sufficient time allowance for lunch and break periods.

With respect to the maximum number of days per week for part-time instructors, the teaching load must be in relation to the amount of hours given. For guidance the following formula shall be used.  $\% \text{ Full-time load} \times 0,05 = \text{maximum number of days per week}$ .

## **Article 8      Faculty requirements**

The institute shall provide a directive for the faculty for the maritime programs containing information and policies on:

1. Hiring, retention, promotion and separation;
2. Functions and responsibilities;
3. Ranking system;
4. Evaluation;
5. Salary rates;
6. Faculty benefits;
7. Code of conduct/ethics.

## **Article 9      Instructor – Student Ratio**

The number of maritime instructors for each program shall not be less than three. There shall be a minimum of two senior instructors and one assistant instructor. The minimum number of general subject instructors is two.

The total minimum number of instructors for the maritime programs at an institute shall meet the following minimum ratio of instructor – student = 1 : 20.

The maximum number of students per class is 30 persons for theoretical subjects. During laboratory sessions and group activities the class will be divided into groups of maximum 10 persons per instructor/supervisor.

## **Article 10 Curriculum**

For each MET program the institute shall follow the appropriate curriculum as provided or approved by the Education and Training Agency.

Annex A – Part 1 (Minimum Standards) contains the prescribed curricular structure and description of the various subjects, which are made an integral part of these minimum standards for MET programs.

Justified improvements/changes to the core curriculum are allowed, after approval by the Education and Training Agency.

MET Institutes that do not possess facilities to conduct applicable prerequisite training programs as prescribed in Chapter II, IV, V and VI of STCW 95 and which form a part of the ANT II and/or ATT II curricula shall:

- Make up an adequate Memorandum of Agreement (MOA) with a third party that is accredited by the Administration of the RI to conduct the to be out-boarded training program(s).
- Keep detailed records to prove actual implementation of the MOA.
- Report applicable MOA's in due time to Badan Diklat/Pusdiklat Laut before the start of each annual study year.

If MET Institutes do possess facilities, then they are subjected to the separate criteria, rules and regulations concerning accreditation and authorization to issue the required Certificates or documented evidence, as promulgated by the responsible authority (Dir. Gen. Sea Communications).

It is the responsibility of the institute that all students will receive the compulsory training programs.

## **Article 11 Administrative documentation**

Every institute offering maritime programs shall maintain in their files up-to-date records of the following:

1. Articles of incorporation and by-laws
2. Certificate of title of the school site
3. Documents of ownership of the school building
4. Proposed budget for the succeeding school year
5. Copy of accountants report of previous budget year
6. Certificate of recognition/permit of the courses
7. Curriculum
8. Organizational and personnel chart
9. List and curriculum vitae of school administrators, academic teaching and non teaching staff
10. List of laboratory facilities, equipment and materials
11. School prospectus
12. Statistics on enrolment and graduates for the last five years
13. Statistics of performance in National examinations
14. Safety occupation permit
15. Fire and/or disaster plan
16. Class and teachers program for the current school year
17. Room utilization schedule

## **Article 12 Students admission, selection and retention**

Institutes offering maritime programs shall observe the following admission and selection criteria.

Students' general admission requirements:

1. Medically fit;
2. Pass eyesight and hearing examination as prescribed by the Administration;
3. Valid birth certificate and Personal Identity Card or other legal identity card;
4. For deck officers be the holder of an ANT III Certificate of Competence followed by 12 months sea going experience as watch keeping officer on ships of between 500 GT and 3,000 GT. For engineer officers be the holder of an ATT III Certificate of Competence followed by 12 months sea going experience as watch keeping officer on ships powered by main propulsion machinery between 750 kW and 3,000 kW propulsion power.

## **Article 13 School Tests and Examination system**

The institute shall develop and apply a test and examination system in accordance with national standards and policies. A committee shall be established to verify whether the contents and level of the exams are in compliance with the relevant evaluation criteria as required by STCW 95.

Examinations may be conducted in writing or oral. In case of oral exams two qualified examiners shall be present during the examination.

Procedures and guidelines shall be developed and applied with respect to enouncements of examination dates and the selection of questions that are to be drawn-up well ahead of the to be executed examinations.

The institute shall keep files concerning all exams executed, including lists of participants, questions and answers and results.

The institute shall develop procedures and guidelines for appeals and resists of examinations.

## **Article 14 Feedback from students and industry**

The institute shall develop a feedback program from graduate students and shipping companies employing graduate students. Feedback may be performed by means of interviews or questionnaires. The aim of the feedback program is to evaluate the school performance in relation to the demands from the industry.

Results of the program shall be published in school magazines.

## **Article 15 Research and Development Program**

Every institute shall have R & D provisions in order to encourage their instructors and students to undertake research for the improvement of MET programs.

## **Article 16 Quality Management System**

The institute shall develop and implement a quality management system in accordance with one of the following quality standard models:

1. TQM;
2. ISO 9002: 2000 (E);
3. SNI 19-19002;
4. QMET;

or any other model that is approved by the National Standardization Institution.

## **Article 17    Campus/public spaces/offices /class room and laboratories**

The set-up of the campus shall be designed to create an effective learning environment. Attention shall be paid to the avoidance of disturbance from outside sources like noise and smells as well as avoidance of mutual interference between class rooms, workshops ...etc.

The campus and buildings shall be supplied with appropriate provisions, safety measurers and procedures in the following:

1. Fire escape
2. Fire alarm systems
3. Campus security force
4. First aid facilities

On the campus site the following supporting facilities shall be available:

1. Administrative rooms/building
2. Instructor room
3. Canteen/cafeteria
4. Library
5. Toilets for male and female
6. Track and field and/or gymnasium
7. Sufficient dormitories to accommodate the number of intern students admitted to the school

To conduct maritime training programs the school shall as a minimum have availability of the following laboratory rooms:

1. Computer laboratory room;
2. Chemistry laboratory room;
3. Physics laboratory room;
4. Machine shops with tool rooms;
5. Seamanship laboratory room;
6. Navigation laboratory room
7. Cargo handling laboratory
8. Automation laboratory
9. Electric and Electronic laboratory;
10. Radar/ARPA simulator room\*;

General requirements for spaces in use:

- Well lighted.
- Well ventilated.
- Safe electrical wiring.
- Shielded against outside noise.
- No usage of building material that might be harmful for the health.

Classroom requirements:

Minimum requirements in addition to the general requirements are:

- 7 x 8 m<sup>2</sup> for a class of 30 students.
- Adequately furnished (White/black board, instructor podium, chairs and tables).

Laboratory/workshop requirements:

Minimum requirements in addition to the general requirements are:

- Enough space, allowing 2 square meters per student.
- If sensitive electronic equipment is installed:
  - Air-conditioning.
  - Dehumidifier.
  - AVR and UPS
  - Electric-fire extinguishers.
- If machinery is installed:
  - Emergency-stop power supply.
  - CO2 extinguishers.
  - First aid kit.
  - Safe storage of combustibles.
- If work clothing is prescribed:
  - Lockers.
  - Washing facilities.

**Note:**

**Specific equipment inventories per laboratory/workshop are described in the respective equipment lists.**

In case a MET Institute does not possess one or more of the above-mentioned laboratory or workshop facilities to carry out related competence training, then the use of proper facilities (incl. qualified instructors) of other accredited parties is in principle allowed.

It is the prerogative of the Komite Nasional Pengawasan Mutu Pelaut Indonesia to decide which facilities may be boarded out and which ones not.

If applicable, the Institute shall:

- make up an adequate Memorandum of Agreement (MOA) concerning the use of the required facilities with a third party that is accredited by the Admin. of the RI
- Keep detailed records to prove actual implementation of the MOA.
- Report applicable MOA's in due time to Badan Diklat/Pusdiklat Laut before the start of each annual study year.

**Article 18    General teaching means.**

As a general rule, the institute shall provide the necessary audiovisual equipment in support of the teaching-learning process such as:

1. Video equipment;
2. Overhead projectors;
3. Slide projector;
4. Sound system;
5. LCD projectors;
6. Screens.

There shall always be sufficient stock of consumables, supporting (hand) tools and other materials for laboratory experiments and execution of practical exercises as prescribed in the lesson plans.

## **Article 19     Library and Internet facilities**

Institutes offering MET programs shall have a library with professional library staff, books and publications that in terms of relevancy and quantity are adequate to suit the maritime studies.

Next to the reference books, video's and PC software as mentioned in the equipment (library) list, the library holdings shall at least contain the following requirements:

1. General reference/education books required for any type of higher education;
2. Supporting reference material on modern nautical and technical subjects;
3. Relevant publications of the International Maritime Organization;
4. Magazines and publications related to the marine industry;

The students and instructors shall have access to the Internet for documentary purposes. Each institute shall have available a minimum of one Internet station per one hundred students.

**Function : Navigation at management level**

<b>EQUIPMENT</b>		
<b>1</b>	<b>Navigational Equipment</b>	
<b>1.1</b>	Magnetic compass, incl. binnacle + manual	1
<b>1.2</b>	Deviation curve or table	1
<b>1.4</b>	Bearing equipment	1
<b>1.8</b>	Charts:	-
	• Big scale chart	1
	• Route chart/ narrow waters	1
	• Mercatorial plotting sheet	1
	• Gnomonic plotting sheet	1
	• Weather chart per ocean	1 set
	• Ocean plotting charts of area concerned	1 set
	• Loran-C chart	1
	• Coastal exercise chart	> 11
	• Applicable national publications	1 set
<b>1.9</b>	Navigational issues :	-
	• BA/HO Chart catalogue	1
	• ATT, area concerned	1 set
	• ALRS, vol 2, 5, 6 and 7	1 set
	• ALL	1 set
	• Tidal stream atlas	1
	• IALA-buoyage NP 735	1
	• Symbols and abbreviations as used in BA-charts NP 5011	1
	• International Code of Signals	1
	• Admiralty Sailing directions / Pilots ( area concerned)	1 set
	• Mariners' Handbook	1
	• Ocean Passages for the World	1
	• Notices to Mariners, weekly editions and (annual) summary	1 set
	• Nautical Almanac	> 11
	• Star finder / identifier	1
	• Star chart	1
	• Nautical tables	1
	• Distance tables	1
	• Pre-computed altitude and azimuth tables	1
	• Applicable national publications	1
<b>1.10</b>	Ship's Logbook ( international)	1
<b>1.13</b>	Calculator, with trigonometric functions and memory capacity	> 31
<b>2</b>	<b>Electronic Navigation Equipment</b>	
<b>2.2</b>	GPS receiver	1
<b>2.3</b>	Loran-C receiver	1
<b>2.6</b>	Gyro compass	1

<b>3</b>	<b>Collision Regulations Equipment</b>	
<b>3.1</b>	Set of models with proper navigation lights and signals (table or magnetic board) or navigation light simulator (computer)	1 set
<b>7</b>	<b>Manoeuvring Equipment</b>	
<b>7.1</b>	Model with ships, jetties, piers, etc. to illustrate berthing procedures	1 set
<b>9</b>	<b>Radar navigation laboratory</b>	
<b>9.1</b>	Briefing room with air conditioner and class equipment	capacity for 10 persons
<b>9.2</b>	OHP	1
<b>9.3</b>	Video cassette / VCD player	1
<b>9.4</b>	Instructor console + accesoires	1
<b>9.5</b>	Own ship display / station according all applicable performance standards of IMO	> 2 set
<b>9.6</b>	Plotting table, plotting and instruments for each set	> 2 set
<b>9.7</b>	Manufacturer's operational manual / user manual for radar	1
<b>9.8</b>	Manufacturer's operational manual / user manual for ARPA	1
	<b>Radar textbooks</b>	-
<b>9.9</b>	Radar observer's handbook for merchant navy officers, Burger, 7 <sup>th</sup> ed, 1983	1
<b>9.10</b>	A guide to collision avoidance rules, Cockroft, 5 <sup>th</sup> ed, 1996	1
<b>9.11</b>	Electronic aids to navigation, Lownsbrough, 1983	1
<b>9.12</b>	Shipborne radar, Subramaniam	1
<b>9.13</b>	Radar and ARPA manual, Bole, 1990	1
	<b>Radar video cassettes / VCD</b>	-
<b>9.14</b>	Automatic radar plotting aids	1
<b>TEXTBOOKS</b>		
<b>T. 1</b>	Admiralty Manual of Navigation, vol.1, HMSO, 1997	1
<b>T. 2</b>	An introduction to coastal navigation, 4 <sup>th</sup> ed, 1985	1
<b>T. 3</b>	The navigation control manual, Bole, 2 <sup>nd</sup> ed, 1992	1
<b>T. 4</b>	Collisions and their causes, Cahill, 1993	1
<b>T. 5</b>	Strandings and their causes, Cahill, 1983	1
<b>T. 6</b>	A guide to the Collision Avoidance Rules, Cockroft, 5 <sup>th</sup> ed, 1996	1
<b>T. 7</b>	The theory and practise of seamanship, Danton, 11 <sup>th</sup> ed, 1996	1
<b>T. 8</b>	Practical navigation for second mates, Frost, 6 <sup>th</sup> ed, 1985	1
<b>T. 9</b>	The principles and practice of navigation, Frost, 3 <sup>rd</sup> ed, 1988	1
<b>T.10</b>	The behaviour and handling of ships, Hooyer,	1
<b>T.11</b>	Bridge Procedure Guide, ICS, 3 <sup>rd</sup> ed 1998	1
<b>T.12</b>	Peril at sea and salvage, ICS, 5 <sup>th</sup> ed, 1998	1
<b>T.13</b>	Accident prevention on board ship at sea and in port, ILO, 1996	1
<b>T.14</b>	International safety guide for oil tankers, ICS, 4 <sup>th</sup> ed, 1996	1
<b>T.15</b>	Notes on compass work, Kemp, 2 <sup>nd</sup> ed, 1972	1

<b>T.16</b>	Shipboard operations, Lavery, 2 <sup>nd</sup> ed, 1996	1
<b>T.17</b>	Electronic aids to navigation: Radar and Arpa, Lownsbrough, 1 <sup>st</sup> ed, 1993	1
<b>T.18</b>	Shiphandling for the mariner, MacElvrey, 3 <sup>rd</sup> ed, 1995	1
<b>T.19</b>	Maritime meteorology, Reed, 2 <sup>nd</sup> ed, 1997	1
<b>T.20</b>	IAMSAR manual, 1 <sup>st</sup> ed.	1
<b>T.21</b>	Ship magnetism and the magnetic compass, Merrifield	1
<b>T.22</b>	Marine observer's handbook, Met office, 11 <sup>th</sup> ed, 1995	1
<b>T.23</b>	Meteorology for mariners, Met office, 1996	1
<b>T.24</b>	The shiphandler's guide, Row	1
<b>T.25</b>	Bridge team management, a practical guide, Swift, 1993	1
<b>T.26</b>	Electronic aids to navigation, Tetley, 1986	1
<b>T.27</b>	The mariner's handbook (NP 100)	1
<b>T.28</b>	GPS satellite navigation, Toft, 1987	1
<b>T.29</b>	Collision regulations fully explained, Wright, 2 <sup>nd</sup> ed, 1989	1
<b>T.30</b>	Squat and interaction manoeuvring, the nautical institute	1
<b>T.31</b>	English for maritime studies, Blakey, 1987	1
<b>T.32</b>	Seaspeak training manual, Weeks, 1992	1
<b>T.33</b>	Code of safe working practices for merchant seaman, 1998	1
<b>T.34</b>	Practical navigation, Subramaniam, 2 <sup>nd</sup> ed, 1978	1
<b>T.35</b>	The use of constant rate turns, Gylden, 1998	1
<b>T.36</b>	Tug use in port, Hensen	1
<b>T.37</b>	Electronic aids to navigation, : position fixing, Tetley, 1991	1
<b>VIDEO CASSETTES / VCD</b>		
<b>V. 1</b>	Know the current rules	1
<b>V. 2</b>	Bridge watch keeping	1
<b>V. 3</b>	Passage planning	1
<b>V. 4</b>	Search and rescue : co-ordination	1
<b>V. 5</b>	Man overboard	1
<b>V. 6</b>	Theory of mooring	1
<b>V. 7</b>	Basic instincts	1
<b>V.8</b>	Preparing the defense	1
<b>V.9</b>	Master/pilot relationship	1
<b>V.10</b>	Shiphandling part 1, 2 and 3	1
<b>V.11</b>	Interaction	1
<b>V.12</b>	Ship handling in following seas	1

**Function : Cargo handling and stowage at management level**

<b>EQUIPMENT</b>		
1	Working models cranes / derrick	1
2	Cargo plans for various types of ships	1 set
3	Model of crude carrier, tanks and pump room, showing pipes and valves	1
4	Model of product tanker, tanks and pump room, showing pipes and valves	1
5	Models, drawings of various types of hatch covers incl. operating and securing arrangements	1 set
6	Models, photographs, drawings of different types of cargo ships	1 set
7	Examples of head and heel cargo blocks	1 set
<b>TEXTBOOKS</b>		
T. 1	Ship stability for masters and mates, Derett, 4 <sup>th</sup> ed, 1984	1
T. 2	International Safety Guide for Oil Tankers and Terminals, ICS/OCIMF 4 <sup>th</sup> ed, 1996	1
T. 3	Shipboard Operations, Lavery, 2 <sup>nd</sup> ed, 1990	1
T. 4	Tanker operations, A handbook ..., Morton, 3 <sup>rd</sup> ed, 1992	1
T. 5	Cargowork, Taylor, 12 <sup>th</sup> ed, 1992	1
T. 6	Thomas Stowage, Thomas, 3 <sup>rd</sup> ed, 1996	1
T.7	Cargo handling, Immer, 1984	1
T.8	Liquefied gas handling principles on ships and terminals, McGuire, 1996	1
T.9	Guidelines for the inspection and maintenance of double hull tanker structures, OCIMF, 1995	1
T.10	Bulk carrier : guidance and information on bulk....., IACS, 1997	1
<b>VIDEO CASSETTES / VCD</b>		
V. 1	IMO – Safer shipping and cleaner seas	1
V.2	Cargo loss prevention on bulk carriers	1
V. 3	Chemical tanker operation part 1	1
V. 4	Dangerous Goods at Sea Series, part 1	1
V. 5	Dangerous Goods at Sea Series, part 2	1
V. 6	Operation and maintenance of inert gas systems	1
V. 7	Crude oil washing	1
V. 8	Reefer container operations	1
V. 9	Bulk carrier losses	1
V. 10	Entering into enclosed spaces	1
V.11	Ro-ro safety and cargo operations	1
V.12	Introduction to chemical tankers	1
V.13	Introduction to liquefied gas tankers	1

**Function : Controlling the operations of the ship and care for the persons on board at management level**

<b>EQUIPMENT</b>		
<b>1</b>	Cut-away 3-D models showing the structure parts of the ship	1 set
<b>2</b>	Photographs, drawings and plans illustrating types of ships and construction details	1 set
<b>3</b>	Floating ship stability model for demonstrating movement of centre of gravity and free surface effects	1
<b>4</b>	Marine hydrometer	1
<b>TEXTBOOKS</b>		
<b>T.1</b>	The theory and practise of seamanship, Danton, 11 <sup>th</sup> ed, 1996	1
<b>T.2</b>	Ship construction, Eyres, 4 <sup>th</sup> ed, 1994	1
<b>T.3</b>	Maritime law, Hill, 1998	1
<b>T.4</b>	Merchant ship construction, Taylor, 2 <sup>nd</sup> ed, 1985	1
<b>T.5</b>	Watchkeeping safety and cargo management in port,, Roberts, 1995	1
<b>T.6</b>	International medical guide for ships	1
<b>T.7</b>	Stability and trim for the ship's officer, La Date, 3 <sup>rd</sup> ed, 1983	1
<b>T.8</b>	Medical first aid guide for use..., 5 <sup>th</sup> ed, 1995	1
<b>T.9</b>	Ship captain's medical guide, DOT, 1985	1
<b>T.10</b>	Code of safe working practices for merchant seaman, 1998	1
<b>T.11</b>	Training and assessment on board, Holder, 2 <sup>nd</sup> ed, 1997	1
<b>VIDEO CASSETTES / VCD</b>		
<b>V. 1</b>	Ship stability CD-ROM	1
<b>V. 2</b>	Entry into enclosed spaces	1
<b>V. 3</b>	Permit to work	1
<b>V. 4</b>	Prevention and reaction to marine oil spills under MARPOL	1
<b>V. 5</b>	Oil pollution regulations and the oil record book	1
<b>V. 6</b>	Being prepared-getting ready for surveys	1
<b>V.7</b>	Management for seafarers series	1
<b>V.8</b>	Loadline surveys	1
<b>V.9</b>	Safety construction survey	1
<b>V.10</b>	Safety equipment survey	1
<b>V.11</b>	SOLAS ch. 3 series part 5	1
<b>V.12</b>	Man overboard	1
<b>V.13</b>	STCW & flag state implementation	1
<b>V.14</b>	Shipping casualty emergency response	1
<b>V.15</b>	The culture gap	1
<b>V.16</b>	On board training	1
<b>V.17</b>	The ISM audit	1
<b>V.18</b>	First aid and medical care on board ships series	1

**General function : Computer room**

<b>C.1</b>	Class room with air conditioner and class room equipment	for 30 persons
<b>C.2</b>	Desktop PC and appropriate application program	12
<b>C.3</b>	Desktop PC and Modem	1
<b>C.4</b>	Desktop PC and CD ROM	1
<b>C.5</b>	Desktop PC and CD Writer	1
<b>C.6</b>	Notebook/Laptop ( optional)	1
<b>C.7</b>	AVR (Stabilizer)	15
<b>C.8</b>	Printer	1
<b>C.9</b>	Consumables for printer ( cartridge, toner)	1 set
<b>C.10</b>	Scanner	1
<b>C.11</b>	UPS ( Uninterruptible Power Supply)	1
<b>C.12</b>	Server/Main frame (optional)	1

**STANDARD COMPETENCE FOR ANT – II CERTIFICATE**

**a. Navigation at the management level**

COMPETENCE	KNOWLEDGE, UNDERSTANDING AND PROFICIENCY	SUBJECT AREA	METHODS FOR DEMONSTRATING COMPETENCE	CRITERIA FOR EVALUATING COMPETENCE
<p>Plan a voyage and conduct navigation.</p>	<p>Voyage planning and navigation for all conditions by acceptable methods of plotting ocean tracks, taking into account,</p> <p>e.g.:</p> <ul style="list-style-type: none"> <li>• restricted waters</li> <li>• meteorological conditions</li> <li>• ice</li> <li>• restricted visibility</li> <li>• traffic separation schemes</li> <li>• areas of extensive tidal effects</li> </ul> <p>Routing in accordance with the General Principles on Ships' Routing</p> <p>Reporting in accordance with the Guidelines and Criteria for Ship Reporting Systems.</p>	<p>Voyage planning and navigation for all conditions:</p> <ol style="list-style-type: none"> <li>1. Logbooks</li> <li>2. Navigation for all conditions.</li> </ol> <p>Routeing in accordance with the General Principles on Ships' Routeing:</p> <ol style="list-style-type: none"> <li>1. Routeing.</li> </ol> <p>Reporting in accordance with the Guidelines and Criteria for Ship Reporting Systems:</p> <ol style="list-style-type: none"> <li>1. Ship reporting systems.</li> </ol>	<p>Examination and assessment of evidence obtained from one or more of the following:</p> <ul style="list-style-type: none"> <li>• approved in-service experience</li> <li>• approved simulator training, where appropriate</li> <li>• approved laboratory equipment training</li> </ul> <p>Using: chart catalogues, charts, nautical publications and ships particulars.</p>	<p>The equipment, charts and nautical publications required for the voyage are enumerated and appropriate to the safe conduct of the voyage;</p> <p>The reasons for the planned route are supported by facts and statistical data obtained from relevant sources and publications;</p> <p>Positions, courses, distances and time calculations are correct within acceptable accuracy standards for navigational equipment;</p> <p>All potential navigational hazards are accurately identified.</p>

COMPETENCE	KNOWLEDGE, UNDERSTANDING AND PROFICIENCY	SUBJECT AREA	METHODS FOR DEMONSTRATING COMPETENCE	CRITERIA FOR EVALUATING COMPETENCE
<p>Determine position and the accuracy of resultant position fix by any means.</p>	<p>Position determination in all conditions:</p> <ul style="list-style-type: none"> <li>• by celestial observations</li> <li>• by terrestrial observations, including the ability to use appropriate charts, notices to mariners and other publications to assess the accuracy of the resulting position fix</li> </ul> <p>Using modern electronic navigation aids, with specific knowledge of their operating principles, limitations, sources of error, detection of misrepresentation of information and methods of correction to obtain accurate position fixing.</p>	<p>Position determination in all conditions:</p> <ol style="list-style-type: none"> <li>1. Terrestrial navigation</li> <li>2. Great-circle sailing</li> <li>3. Celestial navigation</li> <li>4. Tides</li> <li>5. Loran-C system</li> <li>6. Satellite navigation system</li> </ol>	<p>Examination and assessment of evidence obtained from one or more of the following:</p> <ul style="list-style-type: none"> <li>• approved in-service experience</li> <li>• approved simulator training, where appropriate</li> <li>• approved laboratory equipment training</li> </ul> <p>Using:</p> <ul style="list-style-type: none"> <li>• charts nautical almanac, plotting sheets, chronometer, sextant and calculator</li> <li>• charts, navigational publications and instruments (azimuth mirror, sextant, log, sounding equipment, compass) and manufacturers manuals</li> </ul>	<p>The primary method chosen for fixing the ship's position is the most appropriate to the prevailing circumstances and conditions;</p> <p>The fix obtained by celestial observations is within accepted accuracy levels;</p> <p>The fix obtained by terrestrial observations is within accepted accuracy levels;</p> <p>The accuracy of the resulting fix is properly assessed;</p> <p>The fix obtained by the use of electronic navigational aids is within the accuracy standards of the systems in use;</p> <p>The possible errors affecting the accuracy of the resulting position are stated and methods of minimizing the</p>

COMPETENCE	KNOWLEDGE, UNDERSTANDING AND PROFICIENCY	SUBJECT AREA	METHODS FOR DEMONSTRATING COMPETENCE	CRITERIA FOR EVALUATING COMPETENCE
Determine and allow for compass errors.	<p>Ability to determine and allow for errors of the magnetic and gyro-compasses;</p> <p>Knowledge of the principles of magnetic and gyro-compasses;</p> <p>An understanding of systems under the control of the master gyro and a knowledge of the operation and care of the main types of gyro-compass.</p>	<p>The principles and errors of magnetic compasses:</p> <p>1. The principle and errors of magnetic compasses</p> <p>The principle and errors of gyro compasses:</p> <p>1. The principle and errors of gyro compasses</p> <p>Systems under the control of master gyro and the operation of the main types of gyro-compass in use at sea:</p> <p>Systems under the control of master gyro and the operation of the main types of gyro-compass in use at sea.</p>	<ul style="list-style-type: none"> <li>• radar, Loran, satellite navigation systems and appropriate navigational charts and publications.</li> </ul>	<p>effects of system errors on the resulting position are properly applied.</p>
			<p>Examination and assessment of evidence obtained from one or more of the following:</p> <ul style="list-style-type: none"> <li>• approved in-service experience</li> <li>• approved simulator training, where appropriate</li> <li>• approved laboratory equipment training</li> </ul> <p>Using: celestial observations, terrestrial bearings and comparison between magnetic and gyro-compasses.</p>	<p>The method and frequency of checks for errors of magnetic and gyro-compasses ensures accuracy of information..</p>

COMPETENCE	KNOWLEDGE, UNDERSTANDING AND PROFICIENCY	SUBJECT AREA	METHODS FOR DEMONSTRATING COMPETENCE	CRITERIA FOR EVALUATING COMPETENCE
Co-ordinate search and rescue operations	A thorough knowledge of and ability to apply the procedures contained in the IMO International Aeronautical Maritime Search and Rescue Manual (IAMSAR).	<ol style="list-style-type: none"> <li>1. Co-ordination of SAR operations</li> <li>2. Action by a ship in distress</li> <li>3. Action by assisting ships</li> <li>4. Assistance by SAR air craft</li> <li>5. Planning and conducting the search</li> <li>6. Conclusion of search</li> <li>7. Communication</li> <li>8. Air craft casualties at sea.</li> </ol>	<p>Examination and assessment of evidence obtained from one or more of the following:</p> <ul style="list-style-type: none"> <li>• approved in-service experience</li> <li>• approved simulator training, where appropriate</li> <li>• approved laboratory equipment training</li> </ul> <p>Using: relevant publications, charts, meteorological data, particulars of ships involved, radio communication equipment and other available facilities and one or more of the following:</p> <ul style="list-style-type: none"> <li>• approved SAR training course</li> <li>• approved simulator training, where appropriate</li> </ul> <p>approved laboratory equipment training.</p>	<p>The plan for co-ordinating search and rescue operations is in accordance with international guidelines and standards;</p> <p>Radio communications are established and correct communications procedures are followed at all stages of the search and rescue operations.</p>

COMPETENCE	KNOWLEDGE, UNDERSTANDING AND PROFICIENCY	SUBJECT AREA	METHODS FOR DEMONSTRATING COMPETENCE	CRITERIA FOR EVALUATING COMPETENCE
<p>Establish watch-keeping arrangements and procedures.</p>	<p>Thorough knowledge of content, application and intent of the International regulations for Preventing Collisions at Sea;</p> <p>Thorough knowledge of the content, application and intent of the Principles to be observed in keeping a navigational watch;</p> <p>Effective bridge teamwork procedures.</p>	<p>The International Regulations for Preventing Collisions at Sea:</p> <ol style="list-style-type: none"> <li>COLREGS 1972 and amendments</li> </ol> <p>Principles to be observed in keeping a navigational watch:</p> <ol style="list-style-type: none"> <li>Navigational watch</li> </ol> <p>Effective bridge teamwork procedures:</p> <ol style="list-style-type: none"> <li>Bridge teamwork procedures</li> <li>Bridge team management</li> <li>Teamwork.</li> </ol>	<p>Examination and assessment of evidence obtained from one or more of the following:</p> <ul style="list-style-type: none"> <li>approved in-service experience</li> <li>approved simulator training, where appropriate.</li> </ul>	<p>Watch-keeping arrangements and procedures are established and maintained in compliance with international regulations and guidelines so as to ensure the safety of navigation, protection of the marine environment and safety of the ship and persons on board.</p>
<p>Maintain safe navigation through the use of radar and ARPA and modern navigation systems to assist</p>	<p>An appreciation of system errors and thorough understanding of the operational aspects of modern navigational systems, including radar and ARPA;</p>	<ol style="list-style-type: none"> <li>Operate ARPA and navigation controls</li> <li>Perform Radar plotting</li> <li>Use ARPA and navigation information to control</li> </ol>	<p>Assessment of evidence obtained from approved radar simulator and ARPA simulator training.</p>	<p>Information obtained from radar and ARPA is correctly interpreted and analyzed, taking into account the limitations of the equipment and prevailing circumstances and conditions;</p>

COMPETENCE	KNOWLEDGE, UNDERSTANDING AND PROFICIENCY	SUBJECT AREA	METHODS FOR DEMONSTRATING COMPETENCE	CRITERIA FOR EVALUATING COMPETENCE
<p>command decision-making.</p> <p><i>Note:</i> Training and assessment in the use of ARPA is not required for those who serve exclusively on ships not fitted with ARPA. This limitation shall be reflected in the endorsement issued to the seafarer concerned.</p>	<p>Blind pilotage techniques; Evaluation of navigational information derived from all sources, including radar and ARPA, in order to make and implement command decisions for collision avoidance and for directing the safe navigation of the ship; The inter-relationship and optimum use of all navigational data available for conducting navigation.</p>	<p>safe navigation and collision avoidance</p> <p>4. Plan and co-ordinate search and rescue.</p>		<p>Action taken to avoid a close encounter or collision with another vessel is in accordance with the International Regulations for Preventing Collisions at Sea.</p>
<p>Forecast weather and oceanographic conditions.</p>	<p>Ability to understand and interpret a synoptic chart and to forecast area weather, taking into account local weather conditions and information received by weather fax; Knowledge of the</p>	<p>Synoptic charts and weather forecasting: 1. The planetary system of wind and pressure 2. The weather associated with the principal air mass types 3. Synoptic and</p>	<p>Examination and assessment of evidence obtained from one or more of the following:  <ul style="list-style-type: none"> <li>• approved in-service experience</li> <li>• approved laboratory equipment training</li> </ul> </p>	<p>The likely weather conditions predicted for a determined period are based on all available information; Actions taken to maintain safety of navigation minimize any risk to safety of the ship;</p>

COMPETENCE	KNOWLEDGE, UNDERSTANDING AND PROFICIENCY	SUBJECT AREA	METHODS FOR DEMONSTRATING COMPETENCE	CRITERIA FOR EVALUATING COMPETENCE
	<p>characteristics of various weather systems, including tropical revolving storms and avoidance of storm centres and the dangerous quadrants;</p> <p>Knowledge of ocean current systems;</p> <p>Ability to calculate tidal conditions;</p> <p>Use all appropriate navigational publications on tides and currents.</p>	<p>prognostic charts and forecasts from any source</p> <p>4. The maritime forecast code and the range of information available through fax transmissions</p> <p>5. The main types of floating ice, their origins and movements</p> <p>6. The guiding principles relating to the safety of navigation in the vicinity of ice</p> <p>7. Conditions leading to ice accretion on ship's superstructures, dangers and remedies available</p> <p>Characteristics of various weather systems:</p> <p>1. The information, structure and weather associated with the principal frontal systems</p>		<p>Reasons for intended action are backed by statistical data and observations of the actual weather conditions.</p>

COMPETENCE	KNOWLEDGE, UNDERSTANDING AND PROFICIENCY	SUBJECT AREA	METHODS FOR DEMONSTRATING COMPETENCE	CRITERIA FOR EVALUATING COMPETENCE
		<p>2. The formation of, and weather associated with, frontal and non-frontal depressions</p> <p>3. The information and weather characteristics of non-frontal weather systems</p> <p>4. Tropical revolving storms (TRS)</p> <p>Ocean current systems:</p> <ol style="list-style-type: none"> <li>1. Surface water circulation of the ocean and principal adjoining seas</li> <li>2. The principle of voyage planning with respect to weather conditions and wave height</li> <li>3. The formation of sea waves and swell waves</li> </ol> <p>Calculation of tidal conditions:</p> <ol style="list-style-type: none"> <li>1. Apply the relevant weather conditions to tidal calculations</li> </ol>		

COMPETENCE	KNOWLEDGE, UNDERSTANDING AND PROFICIENCY	SUBJECT AREA	METHODS FOR DEMONSTRATING COMPETENCE	CRITERIA FOR EVALUATING COMPETENCE
Respond to navigational emergencies.	<p>Precautions when beaching a ship;                      Action to be taken if grounding is imminent, and after grounding;                      Re-floating a grounded ship with and without assistance;                      Action to be taken if collision is imminent and following a collision or impairment of the watertight integrity of the hull by any cause;                      Assessment of damage control;                      Emergency steering;</p>	<p>Appropriate navigational publications on tides and currents:                      1. Navigational publications on tides and currents.</p> <p>Precautions when beaching a ship:                      1. Precautions when beaching a ship                      Action to be taken if grounding is imminent, and after grounding:                      1. Action to be taken if grounding is imminent, and after grounding                      Re-floating a grounded ship with and without assistance:                      1. Refloating                      Action to be taken if collision is imminent</p>	<p>Examination and assessment of evidence obtained from practical instruction, in-service experience and practical drills in emergency procedures.</p>	<p>The type and scale of any problem is promptly identified and decisions and actions minimize the effects of any malfunction of the ship's systems;                      Communications are effective and comply with established procedures;                      Decisions and actions maximize safety of persons on board.</p>

COMPETENCE	KNOWLEDGE, UNDERSTANDING AND PROFICIENCY	SUBJECT AREA	METHODS FOR DEMONSTRATING COMPETENCE	CRITERIA FOR EVALUATING COMPETENCE
Manoeuvre and handle a ship in all conditions.	<p>Emergency towing arrangements and towing procedures.</p>	<p>and following a collision or impairment of the watertight integrity of the hull by any cause:</p> <ol style="list-style-type: none"> <li>1. Collision</li> </ol> <p>Assessment of damage control:</p> <ol style="list-style-type: none"> <li>1. Assessment of damage control</li> </ol> <p>Emergency steering:</p> <ol style="list-style-type: none"> <li>1. Emergency steering</li> </ol> <p>Emergency towing arrangements and towing Procedures:</p> <ol style="list-style-type: none"> <li>1. Emergency towing arrangements.</li> </ol>		
<p>Manoeuvre and handling a ship in all conditions, including:</p> <ul style="list-style-type: none"> <li>• manoeuvres when approaching pilot stations and embarking or disembarking pilots, with due regard to weather, tide, headreach and stopping</li> </ul>	<p>Manoeuvre and handling a ship in all conditions, including:</p> <ul style="list-style-type: none"> <li>• manoeuvres when approaching pilot stations and embarking or disembarking pilots, with due regard to weather, tide, headreach and stopping</li> </ul>	<ol style="list-style-type: none"> <li>1. Approaching a pilot vessel</li> <li>2. Ship handling in restricted waters</li> <li>3. Constant rate of turn techniques</li> <li>4. Manoeuvring in shallow water</li> <li>5. Interaction : bank, canal, ship and tug</li> </ol>	<p>Examination and assessment of evidence obtained from one or more of the following:</p> <ul style="list-style-type: none"> <li>• approved in-service experience</li> <li>• approved simulator training, where appropriate</li> </ul>	<p>All decisions concerning berthing and anchoring are based on a proper assessment of the ship's manoeuvring and engine characteristics and the forces to be expected while berthed alongside or lying at anchor;</p> <p>While under way, a full</p>

COMPETENCE	KNOWLEDGE, UNDERSTANDING AND PROFICIENCY	SUBJECT AREA	METHODS FOR DEMONSTRATING COMPETENCE	CRITERIA FOR EVALUATING COMPETENCE
<ul style="list-style-type: none"> <li>• distances</li> <li>• handling ship in rivers, estuaries and restricted waters, having regard to the effects of current, wind and restricted water on helm response</li> <li>• application of constant rate of turn techniques</li> <li>• manoeuvring in shallow water, including the reduction in under-keel clearance caused by squat, rolling and pitching</li> <li>• interaction between passing ships and between own ship and nearby banks (canal effect)</li> <li>• berthing and unberthing under various conditions of wind, tide and current with and without tugs</li> <li>• ship and tug interaction</li> <li>• use of propulsion and manoeuvring systems</li> <li>• choice of anchorage; anchoring with one or two anchors in limited anchorages and factors</li> </ul>	<ol style="list-style-type: none"> <li>6. Berthing and unberthing</li> <li>7. Use of propulsion and manoeuvring systems</li> <li>8. Anchoring</li> <li>9. Drydocking</li> <li>10. Handling ships in heavy weather</li> <li>11. Rescue boats and survival craft</li> <li>12. Manoeuvring and propulsion characteristics</li> <li>13. Damage due to own ship's bow and stern waves</li> <li>14. Navigating in or near ice</li> <li>15. Manoeuvring in traffic separation schemes and VTS.</li> </ol>	<ul style="list-style-type: none"> <li>• approved manned scale ship model, where appropriate.</li> </ul>	<p>assessment is made of possible effects of shallow and restricted waters, ice, banks, tidal conditions, passing ships and own ship's bow and stern wave so that the ship can be safely manoeuvred under various conditions of loading and weather.</p>	

COMPETENCE	KNOWLEDGE, UNDERSTANDING AND PROFICIENCY	SUBJECT AREA	METHODS FOR DEMONSTRATING COMPETENCE	CRITERIA FOR EVALUATING COMPETENCE
	<p>involved in determining the length of anchor cable to be used</p> <ul style="list-style-type: none"> <li>• dragging anchor; clearing fouled anchors</li> <li>• dry-docking, both with and without damage</li> <li>• management and handling of ships in heavy weather, including assisting a ship or aircraft in distress; towing operations; means of keeping an unmanageable ship out of trough of the sea, lessening drift and use of oil</li> <li>• precautions in manoeuvring to launch rescue boats or survival craft in bad weather</li> <li>• methods of taking on board survivors from rescue boats and survival craft</li> <li>• ability to determine the manoeuvring and propulsion characteristics of common types of ships with special reference to</li> </ul>			

COMPETENCE	KNOWLEDGE, UNDERSTANDING AND PROFICIENCY	SUBJECT AREA	METHODS FOR DEMONSTRATING COMPETENCE	CRITERIA FOR EVALUATING COMPETENCE
	<p>stopping distances and turning circles at various draughts and speeds</p> <ul style="list-style-type: none"> <li>• importance of navigating at reduced speed to avoid damage caused by own ship's bow wave and stern wave</li> <li>• practical measures to be taken when navigating in or near ice or in conditions of ice accumulation on board</li> <li>• use of, and manoeuvring in and near, traffic separation schemes and in vessel traffic service (VTS) areas.</li> </ul>			
<p>Operate remote controls of propulsion plant and engineering systems and services.</p>	<p>Operating principles of marine power plants; Ships' auxiliary machinery; General knowledge of marine engineering terms.</p>	<p>Operating principles of marine power plants Ships' auxiliary machinery; General knowledge of marine engineering terms: 1. Marine engineering terms and fuel consumption</p>	<p>Examination and assessment of evidence from one or more of the following:</p> <ul style="list-style-type: none"> <li>• approved in-service experience</li> <li>• approved simulator training, where appropriate</li> </ul>	<p>Plant, auxiliary machinery and equipment is operated in accordance with technical specifications and within safe operating limits at all times</p>

**b. Function : Cargo handling and stowage at management level**

COMPETENCE	KNOWLEDGE, UNDERSTANDING AND PROFICIENCY	SUBJECT AREA	METHODS FOR DEMONSTRATING COMPETENCE	CRITERIA FOR EVALUATING COMPETENCE
<p>Plan and ensure safe loading, stowage, securing, care during the voyage and unloading of cargoes.</p>	<p>Knowledge of and ability to apply relevant international regulations, codes and standards concerning the safe handling, stowage, securing and transport of cargoes;</p> <p>Knowledge of the effect on trim and stability of cargoes and cargo operations;</p> <p>Use of stability and trim diagrams and stress-calculating equipment, including automatic data-based (ADB) equipment, and knowledge of loading cargoes and ballasting in order to keep hull stress within acceptable limits;</p> <p>Stowage and securing of cargoes on board ships, including cargo-handling gear and securing and lashing equipment;</p> <p>Loading and unloading operations, with special regard to the transport of cargoes</p>	<p>Application of international regulations, codes and standards concerning the safe handling, stowage, securing and transport of cargoes:</p> <ol style="list-style-type: none"> <li>Plans and actions conform with international regulations</li> </ol> <p>Effect on trim and stability of cargoes and cargo operations:</p> <ol style="list-style-type: none"> <li>Draft, trim and stability</li> </ol> <p>Stability and trim diagrams and stress-calculating equipment:</p> <ol style="list-style-type: none"> <li>Shear forces, bending moments and torsional moments</li> <li>Compliance with the minimum freeboard requirements of the Loadline regulations</li> </ol>	<p>Examination and assessment of evidence obtained from one or more of the following:</p> <ul style="list-style-type: none"> <li>approved in-service experience</li> <li>approved simulator training, where applicable</li> </ul> <p>Using: stability, trim and stress tables, diagrams and stress-calculating equipment.</p>	<p>The frequency and extent of cargo condition monitoring is appropriate to its nature and prevailing conditions;</p> <p>Unacceptable or unforeseen variations in the condition or specification of the cargo is promptly recognized and remedial action is immediately taken and designed to safeguard the safety of the ship and those on board;</p> <p>Cargo operations are planned and executed in accordance with established procedures and legislative requirements;</p> <p>Stowage and securing of cargoes ensures that stability and stress conditions remain within safe limits at all times during the voyage.</p>

	<p>identified in the Code of Safe Practice for Cargo Stowage and Securing;</p> <p>General knowledge of tankers and tanker operations;</p> <p>Knowledge of the operational and design limitations of bulk carriers;</p> <p>Ability to use all available shipboard data related to loading, care and unloading of bulk cargoes;</p> <p>Ability to establish procedures for safe cargo handling in accordance with the provisions of the relevant instruments such as BC Code, IMDG Code, MARPOL 73/78, Annexes III and V and other relevant information;</p> <p>Ability to explain the basic principles for establishing effective communications and improving working relationship between ship and terminal personnel.</p>	<p>3. The use of vector diagrams to calculate stresses on cargo gear</p> <p>4. Use of ADB equipment</p> <p>Stowage and securing of cargoes on board ship, cargo-handling gear and securing and lashing equipment:</p> <ol style="list-style-type: none"> <li>1. Timber deck cargoes</li> <li>2. Procedures for receiving, tallying and delivering cargo</li> <li>3. Care of cargo during carriage</li> <li>4. Requirements applicable to cargo-handling gear</li> <li>5. Maintenance of cargo gear</li> <li>6. Maintenance of hatch covers</li> </ol> <p>Loading and unloading operations, with special regard to the transport of cargoes identified in the code of safe practice for cargo stowage and securing:</p>		
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<p>Assess reported defects and damages to cargo spaces, hatch</p>	<p>Knowledge of the limitations on strength of the vital constructional parts of a standard bulk carrier and</p>	<p>Analyse damage caused by cargo and cargo operations</p>	<p>Examination and assessment of evidence obtained from one or more of the following:</p>	<p>Evaluations are based on accepted principles, well-founded arguments and correctly carried out. The</p>

1. Loading, stowage and discharge of heavy weights
  2. Care of cargo during carriage
  3. Methods and safeguards when fumigating holds
- General knowledge of tankers and tanker operations:
1. Terms and definitions
  2. Contents and application of ISGOTT
  3. Oil tanker operations and related pollution-prevention regulations
  4. Chemical tankers
  5. Tank cleaning & control of pollution in chemical tankers
  6. Gas tankers
  7. Cargo operations in gas tankers

<p>covers and ballast tanks and take appropriate action.</p>	<p>ability to interpret given figures for bending moments and shear forces; Ability to explain how to avoid the detrimental effects on bulk carriers of corrosion, fatigue and inadequate cargo handling.</p>	<p>Assess damage reports and inform all parties concerned Theory and practise of : 1. Shear forces 2. Bending moments 3. Corrosion 4. Fatigue 5. Tension 6. Torsion.</p>	<ul style="list-style-type: none"> <li>• approved in-service experience</li> <li>• approved simulator training, where appropriate</li> </ul> <p>Using : stability, trim and stress tables, diagrams and stress-calculating equipment.</p>	<p>decisions taken are acceptable, taking into consideration the safety of the ship and the prevailing conditions.</p>
<p>Carriage of dangerous cargoes</p>	<p>International regulations, standards, codes and recommendations on the carriage of dangerous cargoes, including the International Maritime Dangerous Goods (IMDG) Code and the Code for Safe Practice for Solid Bulk Cargoes (BC Code); Carriage of dangerous, hazardous and harmful cargoes; precautions during loading and unloading and care during the voyage.</p>	<p>International regulations, standards, codes and recommendations on the carriage of dangerous cargoes: 1. International regulations and codes Carriage of dangerous, hazardous and harmful cargoes: 1. Dangerous goods in packages 2. Solid bulk cargoes 3. The IMO grain regulations.</p>	<p>Examination and assessment of evidence obtained from one or more of the following:</p> <ul style="list-style-type: none"> <li>• approved in-service experience</li> <li>• approved simulator training, where appropriate</li> <li>• approved specialist training</li> </ul>	<p>Planned distribution of cargo is based on reliable information and is in accordance with established guidelines and legislative requirements; Information on dangers, hazards and special requirements is recorded in a format suitable for easy reference in the event of an incident.</p>

**c. Function : Controlling the operation of the ship and care for person on board at the management level**

COMPETENCE	KNOWLEDGE, UNDERSTANDING AND PROFICIENCY	SUBJECT AREA	METHODS FOR DEMONSTRATING COMPETENCE	CRITERIA FOR EVALUATING COMPETENCE
Control trim, stability and stress.	<p>Understanding of fundamental principles of ship construction and the theories and factors affecting trim and stability and measures necessary to preserve trim and stability;</p> <p>Knowledge of the effect on trim and stability of a ship in the event of damage to and consequent flooding of a compartment and countermeasures to be taken;</p> <p>Knowledge of IMO recommendations concerning ship stability.</p>	<p>Fundamental principles of ship construction, trim and stability:</p> <ol style="list-style-type: none"> <li>1. Shipbuilding materials</li> <li>2. Welding bulkheads</li> <li>4. Watertight and weathertight doors</li> <li>5. Corrosion and its prevention</li> <li>6. Surveys and dry-docking</li> <li>7. Stability</li> </ol> <p>Effect on trim and stability in the event of damage and flooding:</p> <ol style="list-style-type: none"> <li>1. Effect on trim and stability of a ship in the event of damage to and consequent flooding of a</li> </ol>	<p>Examination and assessment of evidence obtained from one or more of the following:</p> <ul style="list-style-type: none"> <li>• approved in-service experience</li> <li>• approved training ship experience</li> <li>• approved simulator training, where appropriate</li> </ul>	<p>Stability and stress conditions are maintained within safe limits at all times.</p>

COMPETENCE	KNOWLEDGE, UNDERSTANDING AND PROFICIENCY	SUBJECT AREA	METHODS FOR DEMONSTRATING COMPETENCE	CRITERIA FOR EVALUATING COMPETENCE
		<p>compartment and countermeasures to be taken</p> <p>2. Theories affecting trim and stability</p> <p>Knowledge of IMO recommendations concerning ship stability:</p> <p>1. Responsibilities under the relevant requirements of the International Conventions and Codes.</p>		
<p>Monitor and control compliance with legislative requirements and measures to ensure safety of life at sea and the protection of the marine environment.</p>	<p>Knowledge of international maritime law embodied in international agreements and conventions;</p> <p>Regard shall be paid especially to the following subjects:</p> <ul style="list-style-type: none"> <li>• certificates and other documents required to be carried on board ships by international conventions,</li> </ul>	<p>International maritime law embodied in international conventions:</p> <p>1. Certificates and documents required under international conventions</p> <p>2. Responsibilities under the International Convention on Load Lines</p>	<p>Examination and assessment of evidence obtained from one or more of the following:</p> <ul style="list-style-type: none"> <li>• approved in-service experience</li> <li>• approved training ship experience</li> <li>• approved simulator training, where appropriate</li> </ul>	<p>Procedures for monitoring operations and maintenance comply with legislative requirements;</p> <p>Potential non-compliance is promptly and fully identified;</p> <p>Planned renewal and extension of certificates ensures continued validity of surveyed items and</p>

COMPETENCE	KNOWLEDGE, UNDERSTANDING AND PROFICIENCY	SUBJECT AREA	METHODS FOR DEMONSTRATING COMPETENCE	CRITERIA FOR EVALUATING COMPETENCE
	<p>how they may be obtained and their period of validity</p> <ul style="list-style-type: none"> <li>• responsibilities under the relevant requirements of the International Convention on Load Lines</li> <li>• responsibilities under the relevant requirements of the International Convention for the Safety of Life at Sea</li> <li>• responsibilities under the International Convention for the Prevention of Pollution from Ships</li> <li>• maritime declarations of health and requirements of the International Health regulations</li> <li>• responsibilities under international instruments affecting the safety of the ship, passengers, crew and cargo</li> <li>• methods and aids to prevent pollution of the marine environment by ships</li> <li>• national legislation for implementing international agreements and conventions</li> </ul>	<p>3. Responsibilities under the International Convention for the Safety of Life at Sea</p> <p>4. Responsibilities under the International Convention for the Prevention of Pollution from Ships</p> <p>5. Maritime declarations of health / International Health Regulations</p> <p>6. Responsibilities affecting safety of ship, passengers, crew and cargo</p> <p>7. Methods and aids to prevent pollution of marine environment by ships</p> <p>8. National legislation for implementing agreements and conventions</p>		<p>equipment.</p>

COMPETENCE	KNOWLEDGE, UNDERSTANDING AND PROFICIENCY	SUBJECT AREA	METHODS FOR DEMONSTRATING COMPETENCE	CRITERIA FOR EVALUATING COMPETENCE
<p>Maintain safety and security of the ship's crew and passengers and the operational condition of life-saving, fire-fighting and other safety systems</p>	<p>A thorough knowledge of life-saving appliance regulations (International Convention for the Safety of Life at Sea);</p> <p>Organization of fire and abandon ship drills;</p> <p>Maintenance of operational condition of life-saving, fire-fighting and other safety systems;</p> <p>Actions to be taken to protect and safeguard all persons on board in emergencies;</p> <p>Actions to limit damage and salvage the ship following a fire, explosion, collision or grounding.</p>	<p>Knowledge of life-saving appliance regulations;</p> <p>Organisation of fire and abandon ship drills;</p> <p>Maintenance of operational condition of life-saving, fire fighting and other safety systems;</p> <p>Actions to be taken to protect and safeguard all persons on board in emergencies;</p> <p>Actions to limit damage and salvage the ship following a fire, explosion, collision or grounding.</p>	<p>Examination and assessment of evidence obtained from practical instruction and approved in-service training and experience.</p>	<p>Procedures for monitoring fire-detection and safety systems ensure that all alarms are detected promptly and acted upon in accordance with established emergency procedures</p>
<p>Develop emergency and damage control plans and handle emergency situations</p>	<p>Preparation of contingency plans for response to emergencies;</p> <p>Ship construction, including damage control;</p>	<p>Contingency plans for response to emergencies</p> <p>Ship construction including damage control;</p>	<p>Examination and assessment of evidence obtained from approved in-service training and experience.</p>	<p>Emergency procedures are in accordance with the established plans for emergency situations.</p>

COMPETENCE	KNOWLEDGE, UNDERSTANDING AND PROFICIENCY	SUBJECT AREA	METHODS FOR DEMONSTRATING COMPETENCE	CRITERIA FOR EVALUATING COMPETENCE
	<p>Methods and aids for fire prevention, detection and extinction;</p> <p>Functions and use of life-saving appliances.</p>	<p>Methods and aids for fire protection, detection and extinction;</p> <p>Functions and use of life-saving appliances.</p>		
<p>Organize and manage the crew</p>	<p>A knowledge of personnel management, organization and training on board ship;</p> <p>A knowledge of related international maritime conventions and recommendations, and national legislation.</p>	<p>Personnel management, organization and training on board ship:</p> <ol style="list-style-type: none"> <li>1. Personnel management</li> <li>2. Organization of staff</li> <li>3. Training on board ships</li> </ol> <p>Related international maritime conventions and national legislation:</p> <ol style="list-style-type: none"> <li>1. Related international maritime conventions and national legislation</li> </ol>	<p>Examination and assessment of evidence obtained from approved in-service training and experience.</p>	<p>The crew are allocated duties and informed of expected standards of work and behaviour in a manner appropriate to the individuals concerned;</p> <p>Training objectives and activities are based on an assessment of current competence and capabilities and operational requirements.</p>

COMPETENCE	KNOWLEDGE, UNDERSTANDING AND PROFICIENCY	SUBJECT AREA	METHODS FOR DEMONSTRATING COMPETENCE	CRITERIA FOR EVALUATING COMPETENCE
<p>Organize and manage the provision of medical care on board.</p>	<p>A thorough knowledge of the use and contents of the following publications:</p> <ul style="list-style-type: none"> <li>• <i>International Medical Guide for Ships</i> or equivalent national publication</li> <li>• Medical section of the <i>International Code of Signals</i></li> <li>• <i>Medical First Aid Guide for Use in Accidents Involving Dangerous Goods</i></li> </ul>	<p>Medical publications :</p> <ul style="list-style-type: none"> <li>• International Code of Signals (medical section)</li> <li>• Medical First Aid Guide for Use in Accidents Involving Dangerous Goods</li> <li>• International Medical Guide for Ships</li> </ul>	<p>Examination and assessment of evidence obtained from approved training.</p>	<p>Action taken and procedures followed correctly apply and make full use of advice available.</p>



**FORMAT AUDIT MUTU**  
**QUALITY AUDIT FORM**

**PROGRAM DIKLAT ANT – II**  
**DECK OFFICER CLASS – II**

**BERDASARKAN**  
**BASED ON**

**KEPUTUSAN BERSAMA**  
**JOINT MINISTERIAL DECREE**

**MENHUB, MENDIKNAS, DAN MENAKERTRANS**  
**MINISTER OF COMMUNICATIONS, MINISTER OF NATIONAL EDUCATION,**  
**AND MINISTER OF MANPOWER AND TRANSMIGRATION**

**NO : KM. 41/2003 – 5/U/KB/2003 – KEP.208 A/MEN/2003**  
**11 SEPTEMBER 2003**

**TENTANG**  
**CONCERNING**

**SISTEM STANDAR MUTU KEPELAUTAN INDONESIA**  
**INDONESIAN SEAFARERS QUALITY STANDARD SYSTEM (QSS)**

**ANNEX – A Part 2**

NAME OF INSTITUTE	
CITY ADDRESS	
EMAIL ADDRESS	
TELEPHONE	
WEBSITE	
DATE OF AUDIT	

**DAFTAR ISI – AUDIT FORM**  
***CONTENT***

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**Name Institute:**

**Address :**

**Date of audit :**

**STUDY-LINE ANT II**

<b>OVERALL ASSESSMENT EDUCATION AND TRAINING</b>			
<b>BLOCKS</b>	<b>SCORE PER BLOCK</b>	<b>WEIGHING FACTOR</b>	<b>CORRECTED SCORE</b>
1. ORGANIZATION AND STAFF RESOURCES (OS)		3	
2. INFRA-PROVISIONS TEACHING FACILITIES (ITF)		1	
3. NAVIGATION AT THE OPERATIONAL LEVEL (ED 1)		5	
4. CARGO HANDLING AND STOWAGE AT THE OPERATIONAL LEVEL (ED 2)		5	
5. CONTROLLING THE OPERATION OF THE SHIP AND CARE FOR PERSONS ON BOARD AT THE OPERATIONAL LEVEL (ED 3)		5	
6. EQUIPMENT (EQ)		5	
<b>SUB TOTALS</b>		<b>24</b>	

**OVERALL SCORE**

**REMARKS AND RECOMMENDATIONS:**

Date :

Name :

Function :

Signature :

**Name Institute:**

**Address :**

**Date of audit :**

**STUDY-LINE ANT II**

		ORGANIZATION AND STAFF RESOURCES - OS				File Code	
COM	Organizational and managerial structures	column 2	column 3		column 4	column 5	OS
column 1	Subjects	Available	Suitability	Comments	Points	max	actual
		yes	no	in %			
1	Mission Statement					10	
2	Education and training strategies					70	
3	Organization					50	
4	Instructor requirements					50	
5	Development program requirements					30	
6	Instructors teaching load					70	
7	Faculty requirements					70	
8	Instructor – Student Ratio					30	
9	Curriculum					90	
10	Administrative documentation					50	
11	Students admission, selection and retention					50	
12	School Tests and Examination system					80	
13	Feedback from students and industry					40	
14	Research and Development Program					30	
15	Quality Management System					30	
16	Campus/Building/Public spaces/Offices					50	
17	General teaching means					70	
18	Library and Internet facilities					70	
<b>Totals</b>						<b>940</b>	

**Name Institute:**

**Address :**

**Date of audit :**

**STUDY-LINE ANT II**

		<b>ORGANIZATION AND STAFF RESOURCES</b>		
<b>COM</b>	<b>OS</b>	<b>Organizational and managerial structures</b>		
<b>Subject no.</b>		<b>Description</b>	<b>Points</b>	
			<b>max</b>	<b>actual</b>
1		Mission Statement	10	
2		Education and training strategies	70	
3		Organization	50	
4		Instructor requirements	50	
5		Development program requirements	30	
6		Instructors teaching load	70	
7		Faculty requirements	70	
8		Instructor – Student Ratio	30	
9		Curriculum	90	
10		Administrative documentation	50	
11		Students admission, selection and retention	50	
12		School Tests and Examination system	80	
13		Feedback from students and industry	40	
14		Research and Development Program	30	
15		Quality Management System	30	
16		Campus/Building/Public spaces/Offices	50	
17		General teaching means	70	
18		Library and Internet facilities	70	
		Subtotals	<b>940</b>	

**Actual Points Obtained**

**Maximum Obtainable Points 940**

**ASSESSMENT SCORE block OS**

**Name Institute:**  
**Address :**  
**Date of audit :**

**STUDY-LINE ANT II**

<b>ORGANIZATION AND STAFF RESOURCES - OS</b>	
<b>COM</b>	<b>File Code</b>
<b>Organizational and managerial structures</b>	<b>COM      OS</b>
<b><u>REMARKS AND RECOMMENDATIONS:</u></b>	
<b>Actual points obtained</b>	<b>940</b>
<b>Maximum obtainable points</b>	<b>Assessment score OS</b>
<b><u>Assessor 1</u></b>	
Name:	Signature:
Function:	Date:
<b><u>Assessor 2</u></b>	
Name:	Signature:
Function:	Date:

**Name Institute :**

**Address :**

**Date of audit :**

**STUDY-LINE ANT II**

**INFRA-PROVISIONS FOR TEACHING FACILITIES - ITF**

ITF	Infra-provisions Teaching Facilities	column 2 Subjects	column 3 Suitability in %	column 4 Comments	File Code	
					A II	ITF
column 1					max	actual
ITF-Gen	General requirements				30	
ITF-Cla	Classrooms				20	
ITF-Lab	Laboratories/workshops				50	
ITF-Lib	Library				30	
Totals					<b>130</b>	



**Name Institute:**  
**Address :**  
**Date of audit :**

**STUDY-LINE ANT II**

**INFRA-PROVISIONS FOR TEACHING FACILITIES - ITF**

**REMARKS AND RECOMMENDATIONS:**

**Actual points obtained**  
**Maximum obtainable points**

**130**      **Assessment score ITF**

**Assessor 1**

Name:  
Function:

Date:

Signature:

**Assessor 2**

Name:  
Function:

Date:

Signature:



**Name Institute:**  
**Address :**  
**Date of audit :**

**STUDY-LINE ANT II**

<b>MASTER AND CHIEF MATE</b>											
<b>NAVIGATION AT THE MANAGEMENT LEVEL</b>											
<b>Plan and conduct a passage and determine position</b>											
<b>S: 1.1.1 Voyage planning and navigation for all conditions</b>											
column 1	column 2		column 3			column 4		column 5		column 6	
no.	Description topics per subject	Actually instructed		Examination method (use legend 1)	Item properly examined		Points		max	actual	File Code
		yes	no		% covered (par 5.1.4 d)	yes	no	if no, indicate (use legend 2)			
1	Logbooks								3		
2	Navigation for all conditions.								20		
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											
16											
17											
										<b>23</b>	

**Name Institute:**  
**Address :**  
**Date of audit :**

**STUDY-LINE ANT II**

<b>MASTER AND CHIEF MATE</b>									
<b>NAVIGATION AT THE MANAGEMENT LEVEL</b>									
<b>Plan and conduct a passage and determine position</b>									
<b>Routing in accordance with the general principles on ship's routing</b>									
no.	Description topics per subject	column 3		Examination method (use legend 1)	column 5		column 6		File Code
		yes	no		yes	no	max	actual	
1	Routing							15	
2									
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									
17									
18									
								<b>15</b>	

Name Institute :  
 Address :  
 Date of audit :

**STUDY-LINE ANT II**

<b>MASTER AND CHIEF MATE</b>									
<b>NAVIGATION AT THE MANAGEMENT LEVEL</b>									
<b>Plan and conduct a passage and determine position</b>									
Reporting in accordance with the guidelines and criteria for ship reporting systems									
column 1	column 2	column 3	column 4		column 5		column 6		File Code
no.	Description topics per subject	Actually instructed		Examination method (use legend 1)	Item properly examined		max	actual	Points
		yes	no		yes	no			
1	Ship reporting system							1	
2									
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									
17									
18								1	

Name Institute:  
 Address :  
 Date of audit :

STUDY-LINE ANT II

MASTER AND CHIEF MATE		File Code	
F: I	NAVIGATION AT THE OPERATIONAL LEVEL	A-II/2	ED 1.1
C: 1.1	Plan and conduct a passage and determine position		
S: 1.1.1	Voyage planning and navigation for all conditions	maximum points	actual points
S: 1.1.2	Routeing in accordance with the general principles on ship's routeing	23	
S: 1.1.3	Reporting in accordance with the guidelines and criteria for ship reporting systems	15	
		1	
		39	

<b>Actual Points Obtained</b>	<b>39</b>	<b>Assessment Score ED 1.1</b>
-------------------------------	-----------	--------------------------------

<u>Assessor 1</u>	
Name:	Signature:
Function:	Date:

<u>Assessor 2</u>	
Name:	Signature:
Function:	Date:
Name Institute:	

Address : \_\_\_\_\_

Date of audit : \_\_\_\_\_ **STUDY-LINE ANT II**

<b>MASTER AND CHIEF MATE</b>										
<b>NAVIGATION AT THE MANAGEMENT LEVEL</b>										
<b>Determine position and the accuracy of resultant position fix by any means</b>										
<b>S: 1.2.1 Position determination in all conditions</b>										
column 1	column 2	column 3		column 4	column 5			column 6		
no.	Description topics per subject	Actually instructed		Examination method (use legend 1)	Item properly examined			Points		
		yes	no		% covered (par 5.1.4 d)	yes	no	if no, indicate (use legend 2)	max	actual
1	Terrestrial navigation								24	
2	Great-circle sailing								10	
3	Celestial navigation								24	
4	Tides								10	
5	Loran-C system								6	
6	Satellite navigation system								6	
7										
8										
9										
10										
11										
12										
13										
14										
15										
16										
17										
18										
									<b>80</b>	

**Name Institute:**  
**Address :**  
**Date of audit :**

**STUDY-LINE ANT II**

<b>MASTER AND CHIEF MATE</b>		<b>File Code</b>	
<b>F: 1</b>	<b>NAVIGATION AT THE MANAGEMENT LEVEL</b>	<b>A-II/2</b>	<b>ED 1.2</b>
<b>C: 1.2</b>	<b>Determine position and the accuracy of resultant position fix by any means</b>		
<b>S: 1.2.1</b>	<b>Position determination in all conditions</b>	<b>maximum points</b> <b>80</b>	<b>actual points</b>

<b>Actual Points Obtained</b>	<b>80</b>	<b>Assessment Score ED 1.2</b>
<b>Maximum Obtainable Points</b>	<b>80</b>	

<b><u>Assessor 1</u></b>		
Name:	Date:	Signature:
Function:		

<b><u>Assessor 2</u></b>		
Name:	Date:	Signature:
Function:		

Name Institute: \_\_\_\_\_  
 Address : \_\_\_\_\_

**Date of audit :** \_\_\_\_\_ **STUDY-LINE ANT II**

<b>MASTER AND CHIEF MATE</b>									
<b>NAVIGATION AT THE MANAGEMENT LEVEL</b>									
<b>Determine and allow for compass errors</b>									
<b>S: 1.3.1 The principles and errors of magnetic compasses</b>									
column 1	column 2	column 3		column 4	column 5		column 6		File Code
no.	Description topics per subject	yes	no	Examination method (use legend 1)	yes	no	if no, indicate (use legend 2)	max	actual
			% covered (par 5.1.4 d)						
1	The principles and errors of magnetic compasses							25	
2	Gyro-compass errors and corrections							10	
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									
17									
18									
								<b>35</b>	

**Name Institute:**

**Address :**

**Date of audit :**

**STUDY-LINE ANT II**

<b>MASTER AND CHIEF MATE</b>										
<b>NAVIGATION AT THE MANAGEMENT LEVEL</b>										
<b>Determine and allow for compass errors</b>										
<b>The principles and errors of gyro compasses</b>										
column 1	column 2	column 3		column 4	column 5		column 6		File Code	
no.	Description topics per subject	yes	no	% covered (par 5.1.4 d)	Examination method (use legend 1)	yes	no	if no, indicate (use legend 2)	max	actual
1	The principles and errors of gyro compasses								10	
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										
16										
17										
18									<b>10</b>	

**Name Institute:**  
**Address :**  
**Date of audit :**

**STUDY-LINE ANT II**

<b>MASTER AND CHIEF MATE</b>											
<b>NAVIGATION AT THE MANAGEMENT LEVEL</b>											
<b>Determine and allow for compass errors</b>											
Systems under control of the master gyro and the operation of the main types of gyro-comp.											
no.	Description topics per subject	column 2		column 3		column 4 Examination method (use legend 1)	column 5		column 6		
		yes	no	yes	% covered (par 5.1.4 d)		yes	no	if no, indicate (use legend 2)	max	actual
1	Systems under control of the master gyro and the operation of the main types of the gyro-compasses in use at sea									2	
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											
16											
17											
										<b>2</b>	

Name Institute: :  
 Address :  
 Date of audit :

**STUDY-LINE ANT II**

<b>MASTER AND CHIEF MATE</b>		<b>File Code</b>	
<b>NAVIGATION AT THE MANAGEMENT LEVEL</b>		<b>A-II/1</b>	<b>ED 1.3</b>
<b>C: 1.3</b>	<b>Determine and allow for compass errors</b>	<b>maximum score</b>	<b>actual score</b>
S: 1.3.1	The principles and errors of magnetic compasses	<b>35</b>	
S: 1.3.2	The principles and errors of gyro compasses	<b>10</b>	
S: 1.3.3	Systems under control of the master gyro and the operation of the main types of gyro-comp.	<b>2</b>	
		<b>47</b>	

<b>Actual Points Obtained</b>	<b>47</b>	<b>Assessment Score ED 1.3</b>
<b>Maximum Obtainable Points</b>		

Assessor 1  
 Name: \_\_\_\_\_ Date: \_\_\_\_\_ Signature: \_\_\_\_\_  
 Function: \_\_\_\_\_

Assessor 2  
 Name: \_\_\_\_\_ Date: \_\_\_\_\_ Signature: \_\_\_\_\_  
 Function: \_\_\_\_\_

Name Institute :  
 Address :  
 Date of audit :

**STUDY-LINE ANT II**

<b>MASTER AND CHIEF MATE</b>									
F: 1 C: 1.4 S: 1.4.1	<b>NAVIGATION AT THE MANAGEMENT LEVEL</b>						<b>File Code</b>		
	column 1	column 2	column 3	column 4	column 5	column 6	A-II/2	ED 1.4	
no.	Description topics per subject	Actually instructed		Examination method (use legend 1)	Item properly examined		Points		
		yes	no		yes	no	max	actual	
1	Co-ordination of SAR operations							2	
2	Action by a ship in distress							2	
3	Action by assisting ships							2	
4	Assistance by SAR air craft							2	
5	Planning and conducting the search							2	
6	Conclusion of search							2	
7	Communication							2	
8	Air craft casualties at sea.							2	
9									
10									
11									
12									
13									
14									
15									
16									
17									
18									
							<b>16</b>		

Name Institute:  
 Address :  
 Date of audit :

**STUDY-LINE ANT II**

<b>MASTER AND CHIEF MATE</b>		<b>File Code</b>	
<b>F: 1</b>	<b>NAVIGATION AT THE MANAGEMENT LEVEL</b>		
<b>C: 1.4</b>	<b>Co-ordinate search and rescue operations</b>	<b>A-II/2</b>	<b>ED 1.4</b>
<b>S: 1.4.1</b>	<b>IMO Model Course No. 1.08 and STCW 1995 Regulation I/12</b>	maximum score	actual score
		<b>16</b>	
			16

<b>Actual Points Obtained</b>	<b>16</b>	<b>Assessment Score ED 1.4</b>
<b>Maximum Obtainable Points</b>	<b>16</b>	

<b>Assessor 1</b>		
Name:	Date:	Signature:
Function:		

<b>Assessor 2</b>		
Name:	Date:	Signature:
Function:		

Name Institute: :  
 Address :  
 Date of audit :

**STUDY-LINE ANT II**

<b>MASTER AND CHIEF MATE</b>										
<b>NAVIGATION AT THE MANAGEMENT LEVEL</b>										
<b>Establish watchkeeping arrangements and procedures</b>										
<b>The international regulations for preventing collisions at sea</b>										
column 1	column 2	column 3		column 4	column 5		column 6			
no.	Description topics per subject	Actually instructed		Examination method (use legend 1)	Item properly examined		Points			
		yes	no		% covered (par 5.1.4 d)	yes	no	max	actual	
1	COLREGS 1972 and Amendments							30		
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										
16										
17										
18										
									<b>30</b>	

Name Institute :  
 Address :  
 Date of audit :

**STUDY-LINE ANT II**

<b>MASTER AND CHIEF MATE</b>									
<b>NAVIGATION AT THE MANAGEMENT LEVEL</b>									
<b>F: 1</b>									
<b>C: 1.5</b>									
<b>S: 1.5.2</b>									
<b>Establish watchkeeping arrangements and procedures</b>									
<b>Principles to be observed in keeping a navigational watch</b>									
column 1	column 2	column 3		column 4	column 5		column 6		File Code
no.	Description topics per subject	yes	no	% covered (par 5.1.4 d)	Examination method (use legend 1)	yes	no	if no, indicate (use legend 2)	max actual
1	Navigational watch								2
2									
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									
17									
18									2

Name Institute :  
 Address :  
 Date of audit :

**STUDY-LINE ANT II**

<b>MASTER AND CHIEF MATE</b>										
<b>NAVIGATION AT THE MANAGEMENT LEVEL</b>										
<b>Establish watchkeeping arrangements and procedures</b>										
<b>Effective bridge teamwork procedures</b>										
column 1	column 2	column 3			column 4	column 5			column 6	
no.	Description topics per subject	Actually instructed		Examination method (use legend 1)	Item properly examined		Points		A-II/2	ED 1.5
		yes	no		% covered (par 5.1.4 d)	yes	no	max	actual	
1	Bridge teamwork procedures								3	
2	Bridge team management								3	
3	Teamwork.								2	
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										
16										
17										
18									8	

Name Institute :  
 Address :  
 Date of audit :

STUDY-LINE ANT II

<b>MASTER AND CHIEF MATE</b>		
<b>F: 1</b>	<b>NAVIGATION AT THE MANAGEMENT LEVEL</b>	
<b>C: 1.5</b>	<b>Establish watchkeeping arrangements and procedures</b>	
	<b>File Code</b>	
	<b>A-II/2 ED 1.5</b>	
	<b>actual score</b>	
S: 1.5.1	The international regulations for preventing collisions at sea	<b>30</b>
S: 1.5.2	Principles to be observed in keeping a navigational watch	<b>2</b>
S: 1.5.3	Effective bridge teamwork procedures	<b>8</b>
<b>40</b>		

<b>Actual Points Obtained</b>	<b>40</b>	<b>Assessment Score ED 1.5</b>
<b>Maximum Obtainable Points</b>		

<b>Assessor 1</b>		
Name:	Date:	Signature:
Function:		

<b>Assessor 2</b>		
Name:	Date:	Signature:
Function:		

Name Institute: :  
 Address :  
 Date of audit :

**STUDY-LINE ANT II**

<b>MASTER AND CHIEF MATE</b>											
<b>NAVIGATION AT THE MANAGEMENT LEVEL</b>											
<b>Maintain safe navigation through the use of radar and ARPA and modern nav. Systems to assist command decision making</b>											
IMO Model Course No. 1.08 and STCW 1995 Regulation I/12											
column 1	column 2		column 3			column 4		column 5		column 6	
no.	Description topics per subject	Actually instructed		Examination method (use legend 1)	Item properly examined		Points		File Code		
		yes	no		% covered (par 5.1.4 d)	yes	no	max	actual	A-II/2	ED 1.6
1	Operate ARPA and navigation controls									10	
2	Perform Radar plotting									10	
3	Use ARPA and navigation information to control safe navigation and collision avoidance									10	
4	Plan and co-ordinate search and rescue									10	
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											
16											
17											
18											
											40



**Name Institute:**  
**Address :**  
**Date of audit :**

**STUDY-LINE ANT II**

**MASTER AND CHIEF MATE**

F: 1 C: 1.7 S: 1.7.1		NAVIGATION AT THE MANAGEMENT LEVEL Forecast weather and oceanographic conditions Synoptic charts and weather forecasting		column 2		column 3		column 4		column 5		File Code	
no.	Description topics per subject	Actually instructed		Examination method (use legend 1)	Item properly examined		Points						
		yes	no		yes	no	max	actual					
1	The planetary system of wind and pressure							2					
2	The weather associated with the principal air mass types							2					
3	Synoptic and prognostic charts and forecasts from any source							2					
4	The maritime forecast code and the range of information available through fax transmissions							2					
5	The main types of floating ice, their origins and movements							2					
6	The guiding principles relating to the safety of navigation in the vicinity of ice							1					
7	Conditions leading to ice accretion on ship's superstructures, dangers and remedies available							2					
8													
9													
10													
11													
12													
13													
14													
15													
16													
17													
18													
											<b>13</b>		

**Name Institute:**

**Address :**

**Date of audit :**

**STUDY-LINE ANT II**

<b>MASTER AND CHIEF MATE</b>												
F: 1	NAVIGATION AT THE MANAGEMENT LEVEL			column 3			column 4		column 5		File Code	
	C: 1.7	Forecast weather and oceanographic conditions		yes	no	% covered (par 5.1.4 d)	Examination method (use legend 1)	yes	no	if no, indicate (use legend 2)	Points	
S: 1.7.2	Characteristics of various weather systems		max								actual	
column 1	column 2			column 3		column 4		column 5		column 6		
no.	Description topics per subject											
1	The information, structure and weather associated with the principal frontal systems										2	
2	The formation of, and weather associated with, frontal and non-frontal depressions										2	
3	The information and weather characteristics of non-frontal weather systems										2	
4	Tropical revolving storms (TRS)										2	
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												
15												
16												
17												
18												
											<b>8</b>	

**Name Institute:**  
**Address :**  
**Date of audit :**

**STUDY-LINE ANT II**

<b>MASTER AND CHIEF MATE</b>											
<b>NAVIGATION AT THE MANAGEMENT LEVEL</b>											
<b>Forecast weather and oceanographic conditions</b>											
<b>Ocean current systems</b>											
column 1	column 2		column 3			column 4		column 5		column 6	
no.	Description topics per subject	Actually instructed		Examination method (use legend 1)	Item properly examined		Points		File Code		
		yes	no		% covered (par 5.1.4 d)	yes	no	if no, indicate (use legend 2)	max	actual	A-II/2
1	Surface water circulation of the ocean and principal adjoining seas									2	
2	The principle of voyage planning with respect to weather conditions and wave height									2	
3	The formation of sea waves and swell waves									2	
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											
16											
17											
18										6	

**Name Institute:**  
**Address :**  
**Date of audit :**

**STUDY-LINE ANT II**

<b>MASTER AND CHIEF MATE</b>										
F: 1 C: 1.7 S: 1.7.4 column 1	NAVIGATION AT THE MANAGEMENT LEVEL Forecast weather and oceanographic conditions Calculation of tidal conditions column 2		column 3		column 4		column 5		File Code A- II/2 ED 1.7 column 6	
	Description topics per subject		Actually instructed		Examination method (use legend 1)	Item properly examined		Points		
yes			no	% covered (par 5.1.4 d)		yes	no	max	actual	
1	Apply the relevant weather conditions to tidal calculations								1	
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										
16										
17										
18										1

**Name Institute:**  
**Address :**  
**Date of audit :**

**STUDY-LINE ANT II**

<b>MASTER AND CHIEF MATE</b>										
<b>NAVIGATION AT THE MANAGEMENT LEVEL</b>										
<b>C: 1.7 Forecast weather and oceanographic conditions</b>										
<b>S: 1.7.5 Appropriate navigational publications on tides and currents</b>										
column 1	column 2	column 3			column 4	column 5		column 6		
no.	Description topics per subject	yes	no	% covered (par 5.1.4 d)	Examination method (use legend 1)	yes	no	if no, indicate (use legend 2)	max	actual
1	Navigational publications on the tides and currents								2	
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										
16										
17										
18									2	

**Name Institute:**  
**Address :**  
**Date of audit :**

**STUDY-LINE ANT II**

<b>MASTER AND CHIEF MATE</b>		<b>File Code</b>	
<b>F: 1</b>	<b>NAVIGATION AT THE MANAGEMENT LEVEL</b>	<b>A-II/2</b>	<b>ED 1.7</b>
<b>C: 1.7</b>	<b>Forecast weather and oceanographic conditions</b>		
<b>S: 1.7.1</b>	Synoptic charts and weather forecasting	<b>maximum score</b>	<b>actual score</b>
<b>S: 1.7.2</b>	Characteristics of various weather systems	<b>13</b>	
<b>S: 1.7.3</b>	Ocean current systems	<b>8</b>	
<b>S: 1.7.4</b>	Calculation of tidal conditions	<b>6</b>	
<b>S: 1.7.5</b>	Appropriate navigational publications on tides and currents	<b>1</b>	
		<b>2</b>	
			<b>30</b>

<b>Actual Points Obtained</b>	<b>30</b>	<b>Assessment Score ED 1.7</b>
<b>Maximum Obtainable Points</b>		

**Assessor 1**  
 Name: \_\_\_\_\_ Date: \_\_\_\_\_ Signature: \_\_\_\_\_  
 Function: \_\_\_\_\_

**Assessor 2**  
 Name: \_\_\_\_\_ Date: \_\_\_\_\_ Signature: \_\_\_\_\_  
 Function: \_\_\_\_\_

**Name Institute:**  
**Address :**  
**Date of audit :**

**STUDY-LINE ANT II**

<b>MASTER AND CHIEF MATE</b>											
<b>NAVIGATION AT THE MANAGEMENT LEVEL</b>											
<b>Responds to navigational emergencies</b>											
<b>Precautions when beaching a ship</b>											
column 1	column 2	column 3			column 4	column 5		column 6		File Code	
no.	Description topics per subject	yes	no	% covered (par 5.1.4 d)	Examination method (use legend 1)	yes	no	if no, indicate (use legend 2)	max	actual	A-II/2 ED 1.8
1	Precautions when beaching a ship								2		
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											
16											
17											
18											
										<b>2</b>	

**Name Institute:**  
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**Date of audit :**

**STUDY-LINE ANT II**

<b>MASTER AND CHIEF MATE</b>														
<b>NAVIGATION AT THE MANAGEMENT LEVEL</b>														
<b>Responds to navigational emergencies</b>														
<b>Action to be taken if grounding is imminent and after grounding</b>														
no.	Description topics per subject	column 1		column 2		column 3		column 4		column 5		column 6		
		yes	no	yes	no	yes	no	yes	no	yes	no	max	actual	
		Actually instructed (par 5.1.4 d)		Examination method (use legend 1)		Item properly examined (use legend 2)		Points						
1	Action to be taken if grounding is imminent and after grounding												2	
2														
3														
4														
5														
6														
7														
8														
9														
10														
11														
12														
13														
14														
15														
16														
17														
18													2	

**Name Institute:**  
**Address :**  
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**STUDY-LINE ANT II**

<b>MASTER AND CHIEF MATE</b>									
<b>NAVIGATION AT THE MANAGEMENT LEVEL</b>									
<b>Responds to navigational emergencies</b>									
<b>Refloating a grounded ship with and without assistance</b>									
column 1	column 2	column 3		column 4	column 5		column 6		File Code
no.	Description topics per subject	yes	no	Examination method (use legend 1)	yes	no	Item properly examined if no, indicate (use legend 2)	max	actual
1	Refloating							1	
2									
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									
17									
18								1	

**Name Institute:**  
**Address :**  
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**STUDY-LINE ANT II**

<b>MASTER AND CHIEF MATE</b>									
<b>NAVIGATION AT THE MANAGEMENT LEVEL</b>									
<b>Responds to navigational emergencies</b>									
Action to be taken if collision is imminent and following a collision or impairment of the watertight integrity of the hull by any means									
column 1	column 2	column 3		column 4	column 5		column 6		File Code
no.	Description topics per subject	yes	no	Examination method (use legend 1)	yes	no	if no, indicate (use legend 2)	max	actual
1	Collision							2	
2									
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									
17									
18								2	

**Name Institute:**  
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**Date of audit :**

**STUDY-LINE ANT II**

<b>MASTER AND CHIEF MATE</b>											
<b>NAVIGATION AT THE MANAGEMENT LEVEL</b>											
<b>Responds to navigational emergencies</b>											
<b>Assessment of damage control</b>											
column 1	column 2	column 3			column 4	column 5			column 6		
no.	Description topics per subject	Actually instructed		Examination method (use legend 1)	Item properly examined		Points				
		yes	no		% covered (par 5.1.4 d)	yes	no	max	actual		
1	Assessment of damage control								1		
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											
16											
17											
18											
										<b>1</b>	

**Name Institute:**  
**Address :**  
**Date of audit :**

**STUDY-LINE ANT II**

<b>MASTER AND CHIEF MATE</b>											
<b>NAVIGATION AT THE MANAGEMENT LEVEL</b>											
<b>Responds to navigational emergencies</b>											
<b>Emergency steering</b>											
column 1	column 2	column 3			column 4	column 5			column 6		
no.	Description topics per subject	Actually instructed		Examination method (use legend 1)	Item properly examined		Points				
		yes	no		% covered (par 5.1.4 d)	yes	no	max	actual		
1	Emergency steering								2		
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											
16											
17											
18									2		

**Name Institute:**  
**Address :**  
**Date of audit :**

**STUDY-LINE ANT II**

<b>MASTER AND CHIEF MATE</b>									
<b>NAVIGATION AT THE MANAGEMENT LEVEL</b>									
<b>Responds to navigational emergencies</b>									
<b>Emergency towing arrangements and towing procedures</b>									
no.	Description topics per subject	column 3		Examination method (use legend 1)	column 5		column 6		File Code
		yes	no		yes	no	max	actual	
1	Emergency towing arrangements							2	
2									
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									
17									
18								2	

**Name Institute:**  
**Address :**  
**Date of audit :**

**STUDY-LINE ANT II**

		<b>MASTER AND CHIEF MATE</b>		<b>File Code</b>	
				<b>A-II/2</b>	<b>ED 1.8</b>
<b>F: 1</b>	<b>NAVIGATION AT THE MANAGEMENT LEVEL</b>				
<b>C: 1.8</b>	<b>Responds to navigational emergencies</b>				
		<b>maximum score</b>	<b>actual score</b>		
S: 1.8.1	Precautions when beaching a ship	2			
S: 1.8.2	Action to be taken if grounding is imminent and after grounding	2			
S: 1.8.3	Refloating a grounded ship with and without assistance	1			
S: 1.8.4	Action to be taken if collision is imminent and following a collision or .....	2			
S: 1.8.5	Assessment of damage control	1			
S: 1.8.6	Emergency steering	2			
S: 1.8.7	Emergency towing arrangements and towing procedures	2			
					12

<b>Actual Points Obtained</b>	<b>12</b>	<b>Assessment Score ED 1.8</b>
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<b>Assessor 1</b>	
Name:	Signature:
Function:	Date:

<b>Assessor 2</b>	
Name:	Signature:
Function:	Date:

**Name Institute:**  
**Address :**  
**Date of audit :**

**STUDY-LINE ANT II**

<b>MASTER AND CHIEF MATE</b>											
F: 1 C: 1.9 S: 1.9.1 column 1	NAVIGATION AT THE MANAGEMENT LEVEL		Description topics per subject column 2	Actually instructed column 3		Examination method (use legend 1) column 4	Item properly examined column 5		Points column 6		
	Manoeuvre and handle a ship in all conditions Manoeuvring and handling a ship in all conditions			yes	no		yes	no	max	actual	
1			Approaching a pilot vessel							4	
2			Ship handling in restricted waters							10	
3			Constant rate of turn techniques							1	
4			Manoeuvring in shallow water							2	
5			Interaction : bank, canal, ship and tug							2	
6			Berthing and unberthing							12	
7			Use of propulsion and manoeuvring systems							1	
8			Anchoring							6	
9			Drydocking							2	
10			Handling ships in heavy weather							6	
11			Rescue boats and survival craft							2	
12			Manoeuvring and propulsion characteristics							3	
13			Damage due to own ship's bow and stern waves							1	
14			Navigating in or near ice							3	
15			Manoeuvring in traffic separation schemes and VTS							2	
16											
17											
18											
										<b>57</b>	

**Name Institute:**  
**Address :**  
**Date of audit :**

**STUDY-LINE ANT II**

<b>MASTER AND CHIEF MATE</b>		<b>File Code</b>	
F: 1	<b>NAVIGATION AT THE MANAGEMENT LEVEL</b>	<b>A-II/2</b>	<b>ED 1.9</b>
C: 1.9	<b>Manoeuvre and handle a ship in all conditions</b>		
S: 1.9.1	Manoeuvring and handling a ship in all conditionu	<b>maximum score</b> 57	<b>actual score</b>
		57	

<b>Actual Points Obtained</b>	<b>57</b>	<b>Assessment Score ED 1.9</b>
<b>Maximum Obtainable Points</b>	<b>57</b>	

<b>Assessor 1</b>		
Name:	Date:	Signature:
Function:		

<b>Assessor 2</b>		
Name:	Date:	Signature:
Function:		

Name Institute:

Address :

Date of audit :

STUDY-LINE ANT II

**MASTER AND CHIEF MATE**

F: 1 C: 1.10 S: 1.10.1 column 1	NAVIGATION AT THE MANAGEMENT LEVEL										File Code		
	Operate remote controls of propulsion plant and engineering systems and services Operating principles of marine power plants										A-II/2	ED 1.10	
no.	Description topics per subject	column 2		column 3			Examination method (use legend 1)	column 4		column 5		column 6	
		yes	no	yes	no	% covered (par 5.1.4 d)		yes	no	if no, indicate (use legend 2)	max	actual	Points
1	Operating principles of marine power plants											34	
2													
3													
4													
5													
6													
7													
8													
9													
10													
11													
12													
13													
14													
15													
16													
17													
18												34	

Name Institute :  
 Address :  
 Date of audit :

STUDY-LINE ANT II

MASTER AND CHIEF MATE

NAVIGATION AT THE MANAGEMENT LEVEL

Operate remote controls of propulsion plant and engineering systems and services

S: 1.10.3 General knowledge of marine engineering terms

F: 1 C: 1.10 S: 1.10.3 column 1	column 2	column 3		column 4	column 5		File Code		
		no	% covered (par 5.1.4 d)		yes	no	A-III/2	ED 1.10	
no.	Description topics per subject	yes	no	Examination method (use legend 1)	yes	no	if no, indicate (use legend 2)	max	actual
1	Marine engineering terms and fuel consumption.							4	
2									
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									
17									
18								4	

Name Institute: \_\_\_\_\_  
 Address : \_\_\_\_\_  
 Date of audit : \_\_\_\_\_

**STUDY-LINE ANT II**

<b>MASTER AND CHIEF MATE</b>		File Code	
F: 1	<b>NAVIGATION AT THE MANAGEMENT LEVEL</b>	<b>A-II/2</b>	<b>ED 1.10</b>
C: 1.10	<b>Operate remote controls of propulsion plant and engineering systems and services</b>		
S: 1.10.1	Operating principles of marine power plants	maximum score	actual score
S: 1.10.2	Ship's auxiliary machinery	34	
S: 1.10.3	General knowledge of marine engineering terms	36	
		4	
		74	

<b>Actual Points Obtained</b>	<b>74</b>	<b>Assessment Score ED 1.10</b>									
<table border="0" style="width: 100%;"> <tr> <td style="width: 30%;"><u>Assessor 1</u></td> <td style="width: 30%;"></td> <td style="width: 30%;"></td> </tr> <tr> <td>Name:</td> <td>Date:</td> <td>Signature:</td> </tr> <tr> <td>Function:</td> <td></td> <td></td> </tr> </table>			<u>Assessor 1</u>			Name:	Date:	Signature:	Function:		
<u>Assessor 1</u>											
Name:	Date:	Signature:									
Function:											

<table border="0" style="width: 100%;"> <tr> <td style="width: 30%;"><u>Assessor 2</u></td> <td style="width: 30%;"></td> <td style="width: 30%;"></td> </tr> <tr> <td>Name:</td> <td>Date:</td> <td>Signature:</td> </tr> <tr> <td>Function:</td> <td></td> <td></td> </tr> </table>			<u>Assessor 2</u>			Name:	Date:	Signature:	Function:		
<u>Assessor 2</u>											
Name:	Date:	Signature:									
Function:											



**Name Institute:**  
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**Date of audit :**

**STUDY-LINE ANT II**

<b>MASTER AND CHIEF MATE</b>											
<b>CARGO HANDLING AND STOWAGE AT THE MANAGEMENT LEVEL</b>											
<b>Plan and ensure safe loading, stowage, securing, care during voyage and unloading of cargoes</b>											
<b>Application of international regulations, codes and standards concerning the safe handling, stowage, securing and transport of cargoes</b>											
column 1		column 2		column 3		column 4		column 5		column 6	
<b>no.</b>	<b>Description topics per subject</b>	<b>Actually instructed</b>		<b>Examination method (use legend 1)</b>		<b>Item properly examined</b>		<b>Points</b>		<b>File Code</b>	
		yes	no	% covered (par 5.1.4 d)	yes	no	if no, indicate (use legend 2)	max	actual	A-II/2	ED 2.1
1	Plans and actions conform with international regulations									6	
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											
16											
17											
18										<b>6</b>	

**Name Institute:**  
**Address :**  
**Date of audit :**

**STUDY-LINE ANT II**

<b>MASTER AND CHIEF MATE</b>										
<b>CARGO HANDLING AND STOWAGE AT THE MANAGEMENT LEVEL</b>										
<b>Plan and ensure safe loading, stowage, securing, care during voyage and unloading of cargoes</b>										
<b>S: 2.1.2 Effect on trim and stability of cargoes and cargo operations</b>										
column 1	column 2		column 3		column 4		column 5		column 6	
<b>no.</b>	<b>Description topics per subject</b>	<b>Actually instructed</b>		<b>Examination method (use legend 1)</b>		<b>Item properly examined</b>		<b>Points</b>		
		yes	no	% covered (par 5.1.4 d)	yes	no	if no, indicate (use legend 2)	max	actual	
1	Draft, trim and stability								20	
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										
16										
17										
18									<b>20</b>	

**Name Institute:**  
**Address :**  
**Date of audit :**

**STUDY-LINE ANT II**

<b>MASTER AND CHIEF MATE</b>									
<b>CARGO HANDLING AND STOWAGE AT THE MANAGEMENT LEVEL</b>									
<b>Plan and ensure safe loading, stowage, securing, care during voyage and unloading of cargoes</b>									
<b>Stability and trim diagrams and stress-calculation equipment</b>									
column 1	column 2	column 3		column 4	column 5		column 6		File Code
no.	Description topics per subject	Actually instructed		Examination method (use legend 1)	Item properly examined		Points		A- II/2  ED 2.1
		yes	no		yes	no	max	actual	
1	Shear forces, bending moments and torsional moments							8	
2	Compliance with the minimum freeboard requirements of the Loadline regulations							6	
3	The use of vector diagrams to calculate stresses on cargo gear							6	
4	Use of ADB equipment							2	
5									
6									
7									
8									
9									
10									
11									
12									
14									
15									
16									
17									
18									
									<b>22</b>

**Name Institute:**  
**Address :**  
**Date of audit :**

**STUDY-LINE ANT II**

<b>MASTER AND CHIEF MATE</b>									
<b>CARGO HANDLING AND STOWAGE AT THE MANAGEMENT LEVEL</b>									
<b>Plan and ensure safe loading, stowage, securing, care during voyage and unloading of cargoes</b>									
<b>Stowage and securing of cargoes on board ship, cargo-handling gear and securing and lashing equipment</b>									
column 1	column 2	column 3		column 4	column 5		column 6	File Code	
no.	Description topics per subject	yes	no	Actually instructed % covered (par 5.1.4 d)	Examination method (use legend 1)	yes	no	Item properly examined if no, indicate (use legend 2)	Points max actual
1	Timber deck cargoes								3
2	Procedures for receiving, tallying and delivering cargo								3
3	Care of cargo during carriage								4
4	Requirements applicable to cargo-handling gear								4
5	Maintenance of cargo gear								3
6	Maintenance of hatch covers								2
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									
17									
18									
									<b>19</b>

**Name Institute:**  
**Address :**  
**Date of audit :**

**STUDY-LINE ANT II**

<b>MASTER AND CHIEF MATE</b>										
<b>CARGO HANDLING AND STOWAGE AT THE MANAGEMENT LEVEL</b>										
<b>Plan and ensure safe loading, stowage, securing, care during voyage and unloading of cargoes</b>										
<b>Loading and unloading operations, with special regard to the transport of cargoes identified in the code of safe practice for cargo stowage and securing</b>										
column 1	column 2		column 3		column 4		column 5		column 6	
no.	Description topics per subject	Actually instructed		Examination method (use legend 1)		Item properly examined		Points		
		yes	no	% covered (par 5.1.4 d)	yes	no	if no, indicate (use legend 2)	max	actual	
1	Loading, stowage and discharge of heavy weights								3	
2	Care of cargo during carriage								1	
3	Methods and safeguards when fumigating holds								2	
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										
16										
17										
18									<b>6</b>	

**Name Institute:**  
**Address :**  
**Date of audit :**

**STUDY-LINE ANT II**

<b>MASTER AND CHIEF MATE</b>											
<b>CARGO HANDLING AND STOWAGE AT THE MANAGEMENT LEVEL</b>											
<b>Plan and ensure safe loading, stowage, securing, care during voyage and unloading of cargoes</b>											
<b>S: 2.1.6 General knowledge of tankers and tanker operations</b>											
column 1	column 2			column 3		column 4		column 5		column 6	
no.	Description topics per subject	Actually instructed		Examination method (use legend 1)	Item properly examined		Points				
		yes	no		% covered (par 5.1.4 d)	yes	no	max	actual		
1	Terms and definitions										1
2	Contents and application of ISGOTT										2
3	Oil tanker operations and related pollution-prevention regulations										3
4	Chemical tankers										3
5	Tank cleaning & control of pollution in chemical tankers										2
6	Gas tankers										3
7	Cargo operations in gas tankers										2
8											
9											
10											
11											
12											
13											
14											
15											
16											
17											
18											<b>16</b>

Name Institute :  
 Address :  
 Date of audit :

STUDY-LINE ANT II

<b>MASTER AND CHIEF MATE</b>		<b>File Code</b>	
F: 2	<b>CARGO HANDLING AND STOWAGE AT THE MANAGEMENT LEVEL</b>	A- II/2	ED 2.1
C: 2.1	<b>Plan and ensure safe loading, stowage, securing, care during voyage and unloading of cargoes</b>		
		<b>maximum score</b>	<b>actual score</b>
S: 2.1.1	Application of international regulations, codes and standards concerning the safe.....	<b>6</b>	
S: 2.1.2	Effect on trim and stability of cargoes and cargo operations	<b>20</b>	
S: 2.1.3	Stability and trim diagrams and stress-calculation equipment	<b>22</b>	
S: 2.1.4	Stowage and securing of cargoes on board ship, cargo-handling gear and securing and lashing ....	<b>19</b>	
S: 2.1.5	Loading and unloading operations, with special regard to the transport of cargoes identified ....	<b>6</b>	
S: 2.1.6	General knowledge of tankers and tanker operations	<b>16</b>	
		<b>89</b>	

**Actual Points Obtained**  
**Maximum Obtainable Points**

**89**      **Assessment Score ED 2.1**

**Assessor 1**

Name:  
 Function:

Date:

Signature:

**Assessor 2**

Name:  
 Function:

Date:

Signature:

Name Institute:									
Address :									
<b>Date of audit :</b> <b>STUDY-LINE ANT II</b>									
<b>MASTER AND CHIEF MATE</b>									
<b>F: 2 CARGO HANDLING AND STOWAGE AT THE MANAGEMENT LEVEL</b>									
<b>C: 2.2 Assess reported defects and damages to cargo spaces, hatch covers and ballast tanks and take appropriate action</b>									
<b>S: 2.2.1 Damage reports</b>									
column 1	column 2	column 3		column 4	column 5		column 6		File Code
<b>no.</b>	<b>Description topics per subject</b>	<b>yes</b>	<b>no</b>	<b>Examination method (use legend 1)</b>	<b>yes</b>	<b>no</b>	<b>if no, indicate (use legend 2)</b>	<b>max</b>	<b>actual</b>
1	Analyse damages caused by cargo and cargo operations							2	
2	Assess damage reports and inform all parties concerned							2	
3	Theory and practise of :								
4	shear forces							2	
5	bending moments							2	
6	corrosion							2	
7	fatigue							2	
8	tension							2	
9	torsion							2	
10									
11									
12									
13									
14									
15									
16									
17									
18									
								<b>16</b>	

**Name Institute:**  
**Address :**  
**Date of audit :**

**STUDY-LINE ANT II**

<b>MASTER AND CHIEF MATE</b>		<b>File Code</b>	
F: 2	<b>CARGO HANDLING AND STOWAGE AT THE MANAGEMENT LEVEL</b>	A- II/2	ED 2.2
C: 2.2	Assess reported defects and damages to cargo spaces, hatch covers and ballast tanks and take appropriate action		
S: 2.2.1	Damage reports	maximum score <b>16</b>	actual score <b>16</b>

**Actual Points Obtained**

**Maximum Obtainable Points**

**16**

**Assessment Score ED 2.2**

**Assessor 1**

Name:

Function:

Date:

Signature:

**Assessor 2**

Name:

Function:

Date:

Signature:

**Name Institute:**  
**Address :**  
**Date of audit :**

**STUDY-LINE ANT II**

<b>MASTER AND CHIEF MATE</b>									
<b>CARGO HANDLING AND STOWAGE AT THE MANAGEMENT LEVEL</b>									
<b>Carriage of dangerous cargoes</b>									
<b>International regulations, standards, codes and recommendations on carriage of dangerous goods</b>									
no.	Description topics per subject	column 3		Examination method (use legend 1)	column 5		column 6		Points max actual
		yes	no		yes	no	if no, indicate (use legend 2)		
1	International regulations and codes								2
2									
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									
17									
18									2

**Name Institute:**  
**Address :**  
**Date of audit :**

**STUDY-LINE ANT II**

<b>MASTER AND CHIEF MATE</b>										
<b>CARGO HANDLING AND STOWAGE AT THE MANAGEMENT LEVEL</b>										
<b>Carriage of dangerous cargoes</b>										
<b>Carriage of dangerous, hazardous and harmful cargoes</b>										
column 1	column 2	column 3	column 4	column 5		column 6		File Code		
no.	Description topics per subject	Actually instructed		Examination method (use legend 1)	Item properly examined		Points		A-II/2 ED 2.3	
		yes	no		% covered (par 5.1.4 d)	yes	no	max		actual
1	Dangerous goods in packages								10	
2	Solid bulk cargoes								9	
3	The IMO grain regulations.								7	
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										
16										
17										
18										
									<b>26</b>	

**Name Institute:**  
**Address :**  
**Date of audit :**

**STUDY-LINE ANT II**

<b>MASTER AND CHIEF MATE</b>		<b>File Code</b>	
<b>F: 2</b>	<b>CARGO HANDLING AND STOWAGE AT THE MANAGEMENT LEVEL</b>	<b>A- II/2</b>	<b>ED 2.3</b>
<b>C: 2.3</b>	<b>Carriage of dangerous cargoes</b>	<b>maximum score</b>	<b>actual score</b>
S: 2.3.1	International regulations, standards, codes and recommendations on carriage of dangerous goods	2	
S: 2.3.2	Carriage of dangerous, hazardous and harmful cargoes	26	
		28	

<b>Actual Points Obtained</b>	<b>28</b>	<b>Assessment Score ED 2.3</b>
<b>Maximum Obtainable Points</b>		

**Assessor 1**  
 Name: \_\_\_\_\_ Date: \_\_\_\_\_ Signature: \_\_\_\_\_  
 Function: \_\_\_\_\_

**Assessor 2**  
 Name: \_\_\_\_\_ Date: \_\_\_\_\_ Signature: \_\_\_\_\_  
 Function: \_\_\_\_\_



**Name Institute:**  
**Address :**  
**Date of audit :**

**STUDY-LINE ANT II**

<b>MASTER AND CHIEF OFFICER</b>										
<b>CONTROLLING THE OPERATION OF THE SHIP AND CARE FOR PERSONS ON BOARD AT THE MANAGEMENT LEVEL</b>										
<b>Control trim, stability and stress</b>										
<b>Fundamental principles of ship construction, trim and stability</b>										
column 1	column 2	column 3		column 4	column 5		column 6		File Code	
no.	Description topics per subject	Actually instructed		Examination method (use legend 1)	Item properly examined		Points		A-II/2 ED 3.1	
		yes	no		% covered (par 5.1.4 d)	yes	no	max		actual
1	Shipbuilding materials								3	
2	Welding								3	
3	bulkheads								4	
4	Watertight and weathertight doors								3	
5	Corrosion and its prevention								4	
6	Surveys and dry-docking								2	
7	Stability								83	
8										
9										
10										
11										
12										
13										
14										
15										
16										
17										
18										
									<b>102</b>	

**Name Institute:**  
**Address :**  
**Date of audit :**

**STUDY-LINE ANT II**

<b>MASTER AND CHIEF OFFICER</b>										
<b>CONTROLLING THE OPERATION OF THE SHIP AND CARE FOR PERSONS ON BOARD AT THE MANAGEMENT LEVEL</b>										
<b>Control trim, stability and stress</b>										
<b>Effect on trim and stability in the event of damage and flooding</b>										
no.	Description topics per subject	column 3		Examination method (use legend 1)	column 5		column 6		File Code	
		yes	no		yes	no	max	actual		
1	Effect on trim and stability of a ship in the event of damage to and consequent flooding of a compartment and countermeasures to be taken								9	
2	Theories affecting trim and stability								2	
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										
16										
17										
18										
									<b>11</b>	

**Name Institute:**  
**Address :**  
**Date of audit :**

**STUDY-LINE ANT II**

<b>MASTER AND CHIEF OFFICER</b>										
<b>CONTROLLING THE OPERATION OF THE SHIP AND CARE FOR PERSONS ON BOARD AT THE MANAGEMENT LEVEL</b>										
<b>Control trim, stability and stress</b>										
<b>S: 3.1.3 Knowledge of IMO recommendations concerning ship stability</b>										
no.	Description topics per subject	column 3		Examination method (use legend 1)	column 5		column 6		File Code	
		yes	no		yes	no	max	actual		
1	Responsibilities under the relevant requirements of the International Conventions and Codes.								2	
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										
16										
17										
18									2	

**Name Institute:**  
**Address :**  
**Date of audit :**

**STUDY-LINE ANT II**

<b>MASTER AND CHIEF OFFICER</b>		<b>File Code</b>	
<b>F: 3</b>	<b>CONTROLLING THE OPERATION OF THE SHIP AND CARE FOR PERSONS ON BOARD AT THE MANAGEMENT LEVEL</b>	<b>A-II/2</b>	<b>ED 3.1</b>
<b>C: 3.1</b>	<b>Control trim, stability and stress</b>		
<b>S: 3.1.1</b>	Fundamental principles of ship construction, trim and stability	<b>maximum score</b>	<b>actual score</b>
<b>S: 3.1.2</b>	Effect on trim and stability in the event of damage and flooding	<b>102</b>	
<b>S: 3.1.3</b>	Knowledge of IMO recommendations concerning ship stability	<b>11</b>	
		<b>2</b>	
		<b>115</b>	

**Actual Points Obtained**  
**Maximum Obtainable Points**

**115**      **Assessment Score ED 3.1**

**Assessor 1**

Name:  
 Function:

Date:

Signature:

**Assessor 2**

Name:  
 Function:

Date:

Signature:

**Name Institute:**  
**Address :**  
**Date of audit :**

**STUDY-LINE ANT II**

<b>MASTER AND CHIEF OFFICER</b>											
<b>CONTROLLING THE OPERATION OF THE SHIP AND CARE FOR PERSONS ON BOARD AT THE MANAGEMENT LEVEL</b>											
<b>Monitor and control compliance with legislative requirements and measures to ensure safety of life at sea and the protection of the .....</b>											
<b>International maritime law embodied in international conventions</b>											
column 1	column 2			column 3		column 4		column 5		column 6	
no.	Description topics per subject	Actually instructed		Examination method (use legend 1)	Item properly examined		Points		File Code		
		yes	no		yes	no					max
1	Certificates and documents required under international conventions									1	
2	Responsibilities under the International Convention on Load Lines									1	
3	Responsibilities under the International Convention for the Safety of Life at Sea									2	
4	Responsibilities under the International Convention for the Prevention of Pollution from Ships									3	
5	Maritime declarations of health / International Health Regulations									4	
6	Responsibilities affecting safety of ship, passengers, crew and cargo									23	
7	Methods and aids to prevent pollution of marine environment by ships									2	
8	National legislation for implementing agreements and conventions									0	
9											
10											
11											
12											
13											
14											
15											
16											
17											
18											
										<b>36</b>	

**Name Institute:**  
**Address :**  
**Date of audit :**

**STUDY-LINE ANT II**

<b>MASTER AND CHIEF OFFICER</b>		<b>FILE CODE</b>	
F: 3	CONTROLLING THE OPERATION OF THE SHIP AND CARE FOR PERSONS ON BOARD AT THE MANAGEMENT LEVEL	A-	ED
C: 3.2	Monitor and control compliance with legislative requirements and measures to ensure safety of life at sea and the protection of the .....	II/2	3.2
S: 3.2.1	International maritime law embodied in international conventions	maximum score	actual score
		<b>36</b>	

36

**Actual Points Obtained**  
**Maximum Obtainable Points**

**36      Assessment Score ED 3.2**

**Assessor 1**

Name:  
Function:

Date:

Signature:

**Assessor 2**

Name:  
Function:

Date:

Signature:

**Name Institute:**  
**Address :**  
**Date of audit :**

**STUDY-LINE ANT II**

<b>MASTER AND CHIEF OFFICER</b>									
<b>CONTROLLING THE OPERATION OF THE SHIP AND CARE FOR PERSONS ON BOARD AT THE MANAGEMENT LEVEL</b>									
<b>Maintain safety and security of the ship's crew and passengers and the operational condition of life-saving, fire-fighting and other .....</b>									
<b>S: 3.3.1 Knowledge of life-saving appliance regulations</b>									
F: 3 C: 3.3 S: 3.3.1 column 1	column 2	column 3		column 4	column 5		column 6		File Code
no.	Description topics per subject	Actually instructed		Examination method (use legend 1)	Item properly examined		Points		A-II/2 ED 3.3
		yes	no	% covered (par 5.1.4 d)	yes	no	max	actual	
1	Knowledge of life-saving appliance regulations						2		
2									
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									
17									
18							2		

Name Institute :  
 Address :  
 Date of audit :

**STUDY-LINE ANT II**

<b>MASTER AND CHIEF OFFICER</b>									
<b>CONTROLLING THE OPERATION OF THE SHIP AND CARE FOR PERSONS ON BOARD AT THE MANAGEMENT LEVEL</b>									
<b>Maintain safety and security of the ship's crew and passengers and the operational condition of life-saving, fire-fighting and other .....</b>									
<b>Organisation of fire and abandon ship drills IMO Model Course 2.03 and 1.23. SCTW 1995 Code sections A-VI/3 and A-VI/2</b>									
column 1	column 2	column 3		column 4	column 5		column 6		File Code
no.	Description topics per subject	yes	no	% covered (par 5.1.4 d)	Examination method (use legend 1)	yes	no	if no, indicate (use legend 2)	max actual
1	Organisation of fire and abandon ship drills								10
2									
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									
17									
18									<b>10</b>

Name Institute:

Address :

Date of audit :

STUDY-LINE ANT II

MASTER AND CHIEF OFFICER									
CONTROLLING THE OPERATION OF THE SHIP AND CARE FOR PERSONS ON BOARD AT THE MANAGEMENT LEVEL									
Maintain safety and security of the ship's crew and passengers and the operational condition of life-saving, fire-fighting and other .....									
Maintenance of operational condition of l-s, f-f and other systemsIMO Model Course 2.03 and 1.23. SCTLW 95 Code sections A-VI/3 and A-VI/2									
column 1	column 2	column 3			column 4	column 5			column 6
no.	Description topics per subject	Actually instructed		Examination method (use legend 1)	Item properly examined			Points	
		yes	no		% covered (par 5.1.4 d)	yes	no	if no, indicate (use legend 2)	max
1	Maintenance of operational condition of life-saving, fire-fighting and other safety systems							10	
2									
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									
17									
18									
								<b>10</b>	

Name Institute :  
 Address :  
 Date of audit :

**STUDY-LINE ANT II**

<b>MASTER AND CHIEF OFFICER</b>									
<b>CONTROLLING THE OPERATION OF THE SHIP AND CARE FOR PERSONS ON BOARD AT THE MANAGEMENT LEVEL</b>									
<b>C: 3.3 Maintain safety and security of the ship's crew and passengers and the operational condition of life-saving, fire-fighting and other .....</b>									
<b>S: 3.3.4 Actions to be taken to protect and safeguard all persons on board in emergencies</b>									
column 1	column 2	column 3		column 4	column 5		column 6		File Code
no.	Description topics per subject	yes	no	Actually instructed % covered (par 5.1.4 d)	Examination method (use legend 1)	yes	no	Item properly examined if no, indicate (use legend 2)	Points max actual
1	Actions to be taken to protect and safeguard all persons on board in emergencies								4
2									
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									
17									
18									4

Name Institute: \_\_\_\_\_  
 Address : \_\_\_\_\_  
 Date of audit : \_\_\_\_\_

**MASTER AND CHIEF OFFICER**

**STUDY-LINE ANT II**

<b>F: 3</b>	<b>CONTROLLING THE OPERATION OF THE SHIP AND CARE FOR PERSONS ON BOARD AT THE MANAGEMENT LEVEL</b>	<b>File Code</b>
<b>C: 3.3</b>	<b>Maintain safety and security of the ship's crew and passengers and the operational condition of life-saving, fire-fighting and other .....</b>	<b>A-II/2 ED 3.3</b>
	<b>maximum score</b>	<b>actual score</b>
S: 3.3.1	Knowledge of life-saving appliance regulations	<b>2</b>
S: 3.3.2	Organisation of fire and abandon ship drills	<b>10</b>
S: 3.3.3	Maintenance of operational condition of l-s, f-f and other s systems	<b>10</b>
S: 3.3.4	Actions to be taken to protect and safeguard all persons on board in emergencies	<b>4</b>
S: 3.3.5	Actions to limit damage and save the ship following a fire, explosion, collision or grounding	<b>4</b>
		<b>30</b>

<b>Actual Points Obtained</b>	<b>30</b>	<b>Assessment Score ED 3.3</b>
<b>Maximum Obtainable Points</b>	<b>30</b>	

**Assessor 1**  
 Name: \_\_\_\_\_ Date: \_\_\_\_\_ Signature: \_\_\_\_\_  
 Function: \_\_\_\_\_

**Assessor 2**  
 Name: \_\_\_\_\_ Date: \_\_\_\_\_ Signature: \_\_\_\_\_  
 Function: \_\_\_\_\_

Name Institute :  
 Address :  
 Date of audit :

**STUDY-LINE ANT II**

<b>MASTER AND CHIEF OFFICER</b>										
<b>CONTROLLING THE OPERATION OF THE SHIP AND CARE FOR PERSONS ON BOARD AT THE MANAGEMENT LEVEL</b>										
<b>C: 3.4 Develop emergency and damage control plans and handle emergency situations</b>										
<b>S: 3.4.1 Preparation of contingency plans for response to emergencies</b>										
column 1	column 2		column 3		column 4		column 5		column 6	
no.	Description topics per subject	Actually instructed		Examination method (use legend 1)	Item properly examined		Points		File Code	
		yes	no		% covered (par 5.1.4 d)	yes	no	max	actual	A-II/2
1	Preparation of contingency plans for response to emergencies								9	
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										
17										
18									9	

Name Institute:

Address :

Date of audit :

**STUDY-LINE ANTI**

**MASTER AND CHIEF OFFICER**

F: 3	CONTROLLING THE OPERATION OF THE SHIP AND CARE FOR PERSONS ON BOARD AT THE MANAGEMENT LEVEL										File Code	
	C: 3.4 Develop emergency and damage control plans and handle emergency situations										A-II/2	ED 3.4
S: 3.4.2	column 1		column 3			column 4		column 5		column 6		
no.	Description topics per subject	Actually instructed		Examination method (use legend 1)	Item properly examined		Points					
		yes	no		% covered (par 5.1.4 d)	yes	no	max	actual			
1	Ship construction including damage control								4			
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												
15												
16												
17												
18											4	

Name Institute:

Address :

Date of audit :

**STUDY-LINE ANT II**

<b>MASTER AND CHIEF OFFICER</b>											
<b>CONTROLLING THE OPERATION OF THE SHIP AND CARE FOR PERSONS ON BOARD AT THE MANAGEMENT LEVEL</b>											
<b>Develop emergency and damage control plans and handle emergency situations</b>											
<b>S: 3.4.3 Methods and aids for fire protection, detection and extinction IMO Model Course 2.03 and STCW 1995 Code section A-VI/3</b>											
no.	Description topics per subject	column 2		column 3		Examination method (use legend 1)	column 5		column 6		
		yes	no	yes	no		yes	no	max	actual	
1	Methods and aids for fire protection, detection and extinction									10	
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											
16											
17											
18											
										<b>10</b>	

Name Institute:

Address :

Date of audit :

**STUDY-LINE ANT II**

<b>MASTER AND CHIEF OFFICER</b>									
<b>CONTROLLING THE OPERATION OF THE SHIP AND CARE FOR PERSONS ON BOARD AT THE MANAGEMENT LEVEL</b>									
<b>Develop emergency and damage control plans and handle emergency situations</b>									
<b>Functions and use of life-saving appliances IMO Model Course 1.23 and STCW 1995 Code section A-VI/2-1</b>									
column 1	column 2	column 3		column 4	column 5		column 6		File Code
no.	Description topics per subject	yes	no	Actually instructed % covered (par 5.1.4 d)	Examination method (use legend 1)	yes	no	Item properly examined if no, indicate (use legend 2)	Points max actual
1	Functions and use of life-saving appliances								6
2									
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									
17									
18									6

Name Institute:  
 Address :  
 Date of audit :

**STUDY-LINE ANT II**

<b>MASTER AND CHIEF OFFICER</b>		<b>File Code</b>
<b>F: 3</b>	<b>CONTROLLING THE OPERATION OF THE SHIP AND CARE FOR PERSONS ON BOARD AT THE MANAGEMENT LEVEL</b>	<b>A-II/2</b>
<b>C: 3.4</b>	<b>Develop emergency and damage control plans and handle emergency situations</b>	<b>ED 3.3</b>
S: 3.4.1	Preparation of contingency plans for response to emergencies	<b>maximum score</b>
S: 3.4.2	Ship construction including damage control	<b>9</b>
S: 3.4.3	Methods and aids for fire protection, detection and extinction	<b>4</b>
S: 3.4.4	Functions and use of life-saving appliances	<b>10</b>
		<b>6</b>
		<b>actual score</b>
		<b>29</b>
<b>Actual Points Obtained</b>		
<b>Maximum Obtainable Points</b>		<b>29</b>
<b>Assessment Score ED 3.4</b>		
<b>Assessor 1</b>		
Name:	Date:	Signature:
Function:		
<b>Assessor 2</b>		
Name:	Date:	Signature:
Function:		

Name Institute:

Address :

Date of audit :

STUDY-LINE ANT II

MASTER AND CHIEF OFFICER										
CONTROLLING THE OPERATION OF THE SHIP AND CARE FOR PERSONS ON BOARD AT THE MANAGEMENT LEVEL										
Organise and manage the crew										
personnel management, organization and training on board ship										
column 1	column 2	column 3		column 4	column 5		column 6		File Code	
no.	Description topics per subject	Actually instructed		Examination method (use legend 1)	Item properly examined		Points		A-II/2	ED 3.5
		yes	no		% covered (par 5.1.4 d)	yes	no	max		
1	Personnel management								10	
2	Organization of staff								9	
3	Training on board ships								12	
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										
16										
17										
18										
									<b>31</b>	

Name Institute:

Address :

Date of audit :

**STUDY-LINE ANT II**

<b>MASTER AND CHIEF OFFICER</b>									
<b>CONTROLLING THE OPERATION OF THE SHIP AND CARE FOR PERSONS ON BOARD AT THE MANAGEMENT LEVEL</b>									
<b>Organise and manage the crew</b>									
Related international maritime conventions and national legislation									
column 1	column 2	column 3	column 4	column 5	column 6	File Code			
no.	Description topics per subject	Actually instructed	Examination method (use legend 1)	Item properly examined	Points	yes	no	max	actual
		yes	no	% covered (par 5.1.4 d)		yes	no		
1	Related international maritime conventions and national legislation							2	
2									
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									
17									
18								2	

**Name Institute:**  
**Address :**  
**Date of audit :**

**STUDY-LINE ANT II**

<b>MASTER AND CHIEF OFFICER</b>		<b>File Code</b>	
<b>F: 3</b>		<b>A-II/1</b>	
<b>C: 3.5</b>		<b>ED 3.5</b>	
<b>CONTROLLING THE OPERATION OF THE SHIP AND CARE FOR PERSONS ON BOARD AT THE MANAGEMENT LEVEL</b>		<b>maximum score</b>	<b>actual score</b>
Organise and manage the crew			
S: 3.5.1	personnel management, organization and training on board ship	<b>31</b>	
S: 3.5.2	Related international maritime conventions and national legislation	<b>2</b>	
		<b>33</b>	
<b>Actual Points Obtained</b>		<b>33</b>	<b>Assessment Score ED 3.5</b>
<b>Maximum Obtainable Points</b>			

**Assessor 1**  
 Name:  
 Function:

Date:                      Signature:

**Assessor 2**  
 Name:  
 Function:

Date:                      Signature:

Name Institute :  
 Address :  
 Date of audit :

**STUDY-LINE ANT II**

<b>MASTER AND CHIEF OFFICER</b>										
<b>CONTROLLING THE OPERATION OF THE SHIP AND CARE FOR PERSONS ON BOARD AT THE MANAGEMENT LEVEL</b>										
<b>Organise and manage the provision of medical care on board</b>										
Medical publications										
column 1	column 2	column 3		column 4	column 5		column 6		File Code	
no.	Description topics per subject	Actually instructed		Examination method (use legend 1)	Item properly examined		Points		A-II/2 ED 3.6	
		yes	no		% covered (par 5.1.4 d)	yes	no	if no, indicate (use legend 2)		max
1	International Code of Signals (medical section)								0.5	
2	Medical First Aid Guide for Use in Accidents Involving Dangerous Goods								0.5	
3	International Medical								3	
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										
16										
17										
18										
									<b>4</b>	

**Name Institute:**  
**Address :**  
**Date of audit :**

**STUDY-LINE ANT II**

<b>MASTER AND CHIEF OFFICER</b>								
	<b>CONTROLLING THE OPERATION OF THE SHIP AND CARE FOR PERSONS ON BOARD AT THE MANAGEMENT LEVEL</b>	<b>File Code</b>						
F: 3	<b>Organise and manage the provision of medical care on board</b> Medical publications	A-II/1						
C: 3.6		ED 3.6						
S: 3.6.1								
S: 3.6.1	Medical publications	<table border="0" style="width: 100%;"> <tr> <td style="width: 60%;"><b>maximum score</b></td> <td style="text-align: center;"><b>4</b></td> <td style="width: 40%;"><b>actual score</b></td> </tr> <tr> <td></td> <td style="text-align: center;">4</td> <td></td> </tr> </table>	<b>maximum score</b>	<b>4</b>	<b>actual score</b>		4	
<b>maximum score</b>	<b>4</b>	<b>actual score</b>						
	4							

<b>Actual Points Obtained</b>	<b>4</b>	<b>Assessment Score ED 3.6</b>
<b>Maximum Obtainable Points</b>		

<b>Assessor 1</b>		
Name:	Date:	Signature:
Function:		

<b>Assessor 2</b>		
Name:	Date:	Signature:
Function:		







**Name Institute:** \_\_\_\_\_ **STUDY-LINE ANT II**  
**Address :** \_\_\_\_\_ **MASTER AND CHIEF MATE**  
**Date of audit :** \_\_\_\_\_

COM EQ-Cr	Common equipment at the management level Computer room	File Code	
		A-II/2-C	EQ-Cr
EQ-Cr	Computer room	maximum points 120	actual points
<b>Actual Points Obtained</b>		120	
<b>Maximum Obtainable Points</b>		<b>120</b>	

**Assessor 1**  
Name: \_\_\_\_\_ Date: \_\_\_\_\_ Signature: \_\_\_\_\_  
Function: \_\_\_\_\_

**Assessor 2**  
Name: \_\_\_\_\_ Date: \_\_\_\_\_ Signature: \_\_\_\_\_  
Function: \_\_\_\_\_



Name Institute :  
 Address :  
 Date of audit :

STUDY-LINE ANT II

<b>MASTER AND CHIEF MATE</b>									
EQ-Li EQ-Tb	<b>Library-textbooks and video cassettes/VCD Textbooks</b>					<b>File Code</b>			
	column 1	column 2	column 3	column 4	column 5	A-II/2-C	EQ-Tb		
no.	<b>Description items per subject and quantity</b>		<b>Available</b>		<b>Points</b>				
			quantity	suitability in %	Comments	max	actual		
		<b>Radar textbooks</b> (IMO recommendations)							
		Radar observer's handbook for merchant navy officers, Burger, 7 <sup>th</sup> ed, 1983				5			
		A guide to collision avoidance rules, Cockroft, 5 <sup>th</sup> ed, 1996				5			
		Electronic aids to navigation, Lownsborough, 1983				5			
		Shipborne radar, Subramaniam				5			
		Radar and ARPA manual, Bole, 1990				5			
T. 1		Admiralty Manual of Navigation, vol.1, HMSO, 1997	1			5			
T. 2		An introduction to coastal navigation, 4 <sup>th</sup> ed, 1985	1			5			
T. 3		The navigation control manual, Bole, 2 <sup>nd</sup> ed, 1992	1			5			
T. 5		Collisions and their causes, Cahill, 1993	1			5			
T. 6		Strandings and their causes, Cahill, 1983	1			5			
T. 8		A guide to the Collision Avoidance Rules, Cockroft, 5 <sup>th</sup> ed, 1996	1			5			
T.10		The theory and practise of seamanship, Danton, 11 <sup>th</sup> ed, 1996	1			5			
T.11		Ship stability for masters and mates, Derett, 4 <sup>th</sup> ed, 1984	1			5			
T.12		Ship construction	1			5			
T.13		Practical navigation for second mates, Frost, 6 <sup>th</sup> ed, 1985	1			5			
T.14		The principles and practice of navigation, Frost, 3 <sup>rd</sup> ed, 1988	1			5			
T.16		The use of constant rate turns	1			5			
T.17		Tug use in port	1			5			
T.19		Maritime law, Hill, 1998	1			5			

T.21	The behaviour and handling of ships, Hooyer,	1					5
T.24	Bridge Procedure Guide, ICS, 3rd ed 1998	1					5
T.28	Peril at sea and salvage, ICS, 5th ed, 1998	1					5
T.29	Accident prevention on board ship at sea and in port, ILO, 1996	1					5
T.30	International medical guide for ships	1					5
T.31	International safety guide for oil tankers, ICS, 4th ed, 1996	1					5
T.32	Cargo handling	1					5
T.34	Notes on compass work, Kemp, 2nd ed, 1972	1					5
T.35	Stability and trim for the ship's officer	1					5
T.36	Shipboard operations, Lavery, 2nd ed, 1996	1					5
T.37	Electronic aids to navigation: Radar and Arpa, Lownsborough, 1st ed, 1993	1					5
T.38	Shiphandling for the mariner, MacElvrey, 3rd ed, 1995	1					5
T.41	Tanker operations, A handbook ..., Morton, 3rd ed, 1992	1					5
T.42	Maritime meteorology, Reed, 2nd ed, 1997	1					5
T.44	Liquefied gas handling principles on ships and terminals	1					5
T.45	IAMSAR manual, 1st ed.	1					5
T.46	Ship magnetism and the magnetic compass, Merrifield	1					5
T.47	Marine observer's handbook, Met office, 11th ed, 1995	1					5
T.48	Meteorology for mariners, Met office, 1996	1					5
T.53	The shiphandler's guide, Row	1					5
T.54	Ship captain medical guide	1					5
T.57	Bridge team management, a practical guide, Swift, 1993	1					5
T.58	Merchant ship construction, Taylor, 2nd ed, 1985	1					5
T.59	Cargowork, Taylor, 12th ed, 1992	1					5
T.60	Electronic aids to navigation, Tetley, 1986	1					5
T.61	The mariner's handbook (NP 100)	1					5
T.62	GPS satellite navigation, Toft, 1987	1					5

T.63	Collision regulations fully explained, Wright, 2 <sup>nd</sup> ed, 1989	1				5
T.63*	The properties and stowage of cargoes, Thomas, 3 <sup>rd</sup> ed, 1996	1				5
T.66	Squat and interaction manoeuvring, the nautical institute	1				5
T.66*	Watchkeeping safety and cargo management in port,, Roberts, 1995	1				5
T.66**	Introduction to marine engineering	1				5
T.67	English for maritime studies, Blakey, 1987	1				5
T.67*	Medical first aid guide for use in accidents involving dangerous goods	1				5
T.68	Seaspeak training manual, Weeks, 1992	1				5
T.68*	Guidelines for the inspection and maintenance of double hull tanker structures	1				5
T.69	Guidance and information on bulk cargo loading and discharging to reduce the likelihood of overstressing the hull structures	1				5
T.70	Code of safe working practices for merchant seaman, 1998	1				5
T.72	Training and assessment on board	1				5
T.73	Practical navigation, Subramaniam, 2 <sup>nd</sup> ed, 1978	1				5
						<b>295</b>

Name Institute:  
 Address :  
 Date of audit :

		Study-line ANT II	
EQ-Li	Library-textbooks and video cassettes/VCD	File Code	
EQ-Tb	Textbooks	A-II/2-C	EQ-Tb
EQ-Tb	Textbooks	maximum points 295	actual points
		295	
<b>Actual Points Obtained</b>		<b>295</b>	<b>Assessment Score EQ-Tb</b>
<b>Maximum Obtainable Points</b>			

**Assessor 1**

Name:  
 Function:

Date:

Signature:

**Assessor 2**

Name:  
 Function:

Date:

Signature:

Name Institute :  
 Address :  
 Date of audit :

**STUDY-LINE ANT II**

EQ-Li		<b>MASTER AND CHIEF MATE</b>				File Code	
EQ-Vc		<b>Library-textbooks and video cassettes/VCD</b>				A-II/2-C	EQ-Vc
column 1		column 2	column 3	column 4	column 5		
no.	Description items per subject and quantity	Available		Comments	Points		
		quantity	suitability in %		max	actual	
	<b>Radar video cassettes / VCD (IMO recommendations)</b>						
	Automatic radar plotting aids	1			5		
VID 202	IMO – Safer shipping and cleaner seas	1			5		
VID 301	Preparing the defence	1			5		
x	Ship stability CD-ROM	1			5		
11	Crude oil washing	1			5		
13	Interaction	1			5		
95	Ship handling part 1	1			5		
100	Introduction to chemicals tankers	1			5		
103	Introduction to liquefied gas carriers	1			5		
116	Operation and maintenance of inert gas systems	1			5		
129	Ship handling part 2	1			5		
162	Ro-ro safety and cargo operations	1			5		
321	Ship handling part 3	1			5		
328	Know the current rules	1			5		
329.1	Chemical tanker operation part 1	1			5		
387	Dangerous Goods at Sea Series, part 1	1			5		
387/8	Dangerous Goods at Sea Series	1			5		
388	Dangerous Goods at Sea Series, part 2	1			5		
463	SOLAS Chapter III series part 5-SOLAS amendments	1			5		

467	Shipping casualty emergency response	1					5	
481	Reefer container operations	1					5	
489	Onboard training by design	1					5	
496	Passage planning	1					5	
497	Bridge watch keeping	1					5	
498	Master/pilot relationship	1					5	
506	Operation and maintenance of hatch covers	1					5	
532	Bulk carrier losses	1					5	
534	Entering into enclosed spaces	1					5	
537	The culture gap	1					5	
544	Loadline surveys	1					5	
545	Safety construction survey	1					5	
546	Safety equipment survey	1					5	
564/571	First aid and medical care on board ship series	1					5	
574	Search and rescue : co-ordination	1					5	
575	The ISM audit	1					5	
591	Prevention and reaction to marine oil spills under MARPOL	1					5	
598	Cargo loss prevention on bulk carriers	1					5	
603	Basic instincts	1					5	
606	Oil pollution regulations and the oil record book	1					5	
607/612	Management for seafarers series	1					5	
615	Theory of mooring	1					5	
621	Permit to work	1					5	
629	STCW & Flag state implementation	1					5	
636	Ship handling in following seas	1					5	
644	Man overboard	1					5	
							<b>225</b>	

Name Institute: :  
 Address :  
 Date of audit :

**STUDY-LINE ANT II**

		<b>MASTER AND CHIEF MATE</b>	
<b>EQ-Li</b>	<b>Library-textbooks and video cassettes/VCD</b>	<b>File Code</b>	
<b>EQ-Vc</b>	<b>Video cassettes/VCD</b>	<b>A-II/2-C</b>	<b>EQ-Vc</b>
EQ-Vc	Video cassettes/VCD	maximum points 225	actual points
<b>Actual Points Obtained</b>		225	
<b>Maximum Obtainable Points</b>		<b>225</b>	
		<b>Assessment Score EQ-Vc</b>	

<b><u>Assessor 1</u></b>	
Name:	Signature:
Function:	Date:
<b><u>Assessor 2</u></b>	
Name:	Signature:
Function:	Date:



Name Institute :  
 Address :  
 Date of audit :

**STUDY-LINE ANT II**

<b>F 1</b>		<b>NAVIGATION AT THE MANAGEMENT LEVEL</b>		<b>MASTER AND CHIEF MATE</b>		<b>File Code</b>	
		<b>Navigation Equipment</b>		column 3	column 4	column 5	<b>EQ-Na</b>
<b>no.</b>	<b>Description items per subject and quantity</b>	<b>quantity</b>	<b>Available suitability in %</b>	<b>Comments</b>	<b>max</b>	<b>actual</b>	
column 1	column 2	column 3	column 4	column 5			
<b>1</b>	<b>Navigation Equipment</b>						
1.1	Magnetic compass, incl. binnacle + manual	1			25		
1.2	Deviation curve or table	1			5		
1.4	Bearing equipment	1			5		
1.8	Charts:	-					
	Big scale chart	1			1		
	Route chart/ narrow waters	1			1		
	Mercatorial plotting sheet	1			1		
	Gnomonic plotting sheet	1			1		
	Weather chart per ocean (pilot chart per month)	1 set			2		
	Ocean plotting charts of area concerned	1 set			2		
	Loran-C chart	1			1		
	Coastal exercise chart	> 11			5		
	Applicable national publications	1 set			2		
1.9	Navigation issues :	-					
	BA/HO Chart catalogue	1			1		
	ATT, area concerned	1 set			2		
	ALRS, vol 2, 5, 6 and 7	1 set			1		
	ALL	1 set			22		
	Tidal stream atlas	1			1		
	IALA-buoyage NP 735	1			1		



Name Institute: :  
 Address :  
 Date of audit :

**STUDY-LINE ANT II**

<b>MASTER AND CHIEF MATE</b>	
<b>F 1</b>	<b>NAVIGATION AT THE MANAGEMENT LEVEL</b>
<b>EQ-Na</b>	<b>Navigation Equipment</b>
<b>EQ-Na</b>	<b>Navigation Equipment</b>
<b>EQ-Na</b>	maximum points 134  actual points
<b>Actual Points Obtained</b> <b>Maximum Obtainable Points</b>	
<b>134</b>	<b>134</b>
<b>134</b>	<b>Assessment Score EQ-Na</b>

**Assessor 1**

Name:  
 Function:

Date:

Signature:

**Assessor 2**

Name:  
 Function:

Date:

Signature:



Name Institute: \_\_\_\_\_  
 Address : \_\_\_\_\_  
 Date of audit : \_\_\_\_\_

**STUDY-LINE ANT II**

<b>MASTER AND CHIEF MATE</b>		File Code	
<b>F 1</b>	<b>NAVIGATION AT THE MANAGEMENT LEVEL</b>	<b>A-II/2.1</b>	<b>EQ-EI</b>
EQ-EI	Electronic Navigation Equipment	maximum points 80	actual points
<b>Actual Points Obtained</b>		<b>80</b>	<b>Assessment Score EQ-EI</b>
<b>Maximum Obtainable Points</b>		<b>80</b>	<b>Assessment Score EQ-EI</b>

**Assessor 1**

Name: \_\_\_\_\_  
 Function: \_\_\_\_\_

Date: \_\_\_\_\_

Signature: \_\_\_\_\_

**Assessor 2**

Name: \_\_\_\_\_  
 Function: \_\_\_\_\_

Date: \_\_\_\_\_

Signature: \_\_\_\_\_



Name Institute: :  
 Address :  
 Date of audit :

**STUDY-LINE ANT II**

MASTER AND CHIEF MATE		File Code	
F: 1	NAVIGATION AT THE MANAGEMENT LEVEL	A-II/2.1	EQ-Co
EQ-Co	Collision Regulations Equipment	maximum points 10	actual points
EQ-Co	Collision Regulations Equipment	10	10
<b>Actual Points Obtained</b>		<b>10</b>	<b>Assessment Score EQ-Co</b>
<b>Maximum Obtainable Points</b>		<b>10</b>	<b>Assessment Score EQ-Co</b>

**Assessor 1**

Name:  
 Function:

Date:

Signature:

**Assessor 2**

Name:  
 Function:

Date:

Signature:



Name Institute: :  
 Address :  
 Date of audit :

**STUDY-LINE ANT II**

<b>MASTER AND CHIEF MATE</b>	
<b>F 1</b>	<b>NAVIGATION AT THE MANAGEMENT LEVEL</b>
<b>EQ-Ma</b>	<b>Manoeuvring Equipment</b>
<b>EQ-Ma</b>	<b>Manoeuvring Equipment</b>
<b>5</b>	<b>5</b>
<b>maximum points</b>	<b>actual points</b>
<b>5</b>	
<b>5</b>	
<b>Assessment Score EQ-Ma</b>	

**Assessor 1**

Name:  
 Function:

Date:

Signature:

**Assessor 2**

Name:  
 Function:

Date:

Signature:



Name Institute: :  
 Address :  
 Date of audit :

STUDY-LINE ANT II

<b>MASTER AND CHIEF MATE</b>		<b>File Code</b>
<b>F: 1</b>	<b>NAVIGATION AT THE MANAGEMENT LEVEL</b>	<b>A-II/2.1</b>
<b>EQ-Ra</b>	<b>Radar navigation laboratory</b>	<b>EQ-Ra</b>
<b>EQ-Ra</b>	<b>Radar navigation laboratory</b>	<b>actual points</b>
	<b>maximum points</b>	
	<b>280</b>	
<b>Actual Points Obtained</b>		<b>280</b>
<b>Maximum Obtainable Points</b>		<b>Assessment Score EQ-Ra</b>

**Assessor 1**

Name:  
 Function:

Date:

Signature:

**Assessor 2**

Name:  
 Function:

Date:

Signature:





Name Institute: \_\_\_\_\_  
 Address : \_\_\_\_\_  
 Date of audit : \_\_\_\_\_

**STUDY-LINE ANT II**

<b>MASTER AND CHIEF OFFICER</b>		File Code	
<b>CARGO HANDLING AND STOWAGE AT THE MANAGEMENT LEVEL</b>		A-II/2.2	EQ-Ca
<b>F 2</b>	<b>EQ-Ca</b>	<b>Cargo handling and stowage</b>	
		maximum points <b>35</b>	actual points
		<b>35</b>	
<b>Actual Points Obtained</b>		<b>35</b>	<b>Assessment Score EQ-Ca</b>
<b>Maximum Obtainable Points</b>			

**Assessor 1**

Name: \_\_\_\_\_  
 Function: \_\_\_\_\_

Date: \_\_\_\_\_

Signature: \_\_\_\_\_

**Assessor 2**

Name: \_\_\_\_\_  
 Function: \_\_\_\_\_

Date: \_\_\_\_\_

Signature: \_\_\_\_\_





Name Institute:  
 Address :  
 Date of audit :

**STUDY-LINE ANT II**

<b>MASTER AND CHIEF OFFICER</b>		File Code	
F 3 EQ-Cn	CONTROLLING THE OPERATIONS OF THE SHIP AND CARE FOR PERSONS ON BOARD AT THE MANAGEMENT LEVEL Controlling equipment	A-II/2.3	EQ-Cn
<b>EQ-Cn</b>	Controlling equipment	maximum points 40	actual points
		40	
<b>Actual Points Obtained</b>		<b>40</b>	<b>Assessment Score EQ-Cn</b>
<b>Maximum Obtainable Points</b>		<b>40</b>	

**Assessor 1**

Name:  
 Function:

Date:

Signature:

**Assessor 2**

Name:  
 Function:

Date:

Signature:

