

ADVANCED TRAINING FOR SERVICE ON SHIPS SUBJECT TO THE IGF CODE



TARGET GROUP

The training course is intended for Masters, Officers, ratings and other personnel with immediate responsibility for the care and use of fuels and fuel systems on ships subject to the IGF Code should receive advanced training.



OBJECTIVES OF THE COURSE

The trainees who successfully complete this course should be able to demonstrate their competency in safety for ships using gases or other low-flashpoint fuels as set out in table A-V/3-2 of the STCW Code, including:

- Familiarity with physical and chemical properties of fuels aboard ships subject to the IGF Code;
- Operate controls of fuel related to propulsion plant and engineering systems and services and safety devices on ships subject to the IGF Code;
- Ability to safely perform and monitor all operations related to the fuels used on board ships subject to the IGF Code;
- Plan and monitor safe bunkering, stowage and securing of the fuel on board ships subject to the IGF Code;
- Take precautions to prevent pollution of the environment from the release of fuels from ships subject to the IGF Code;
- Monitor and control compliance with legislative requirements;
- Take precautions to prevent hazards;
- Apply occupational health and safety precautions and measures on board a ship subject to the IGF Code;
- Knowledge of the prevention, control and firefighting and extinguishing systems on board ships subject to the IGF Code.

INCOME REQUIREMENTS:



To be assigned on Advanced training for service on ships subject to the IGF Code, participant should present:

- National passport;
- Seamen's book;
- Basic training for service on ships subject to the IGF Code Course Certificate (section A-V/3-1 of the STCW Code) or
- Basic training for liquefied gas tanker cargo operations certificate (section A-V/1-2-1 of the STCW Code) or
- Advanced training for liquefied gas tanker cargo operations certificate (section A-V/1-2-2 of the STCW Code).

COURSE LIMITATIONS



The maximum number of participants - 12 persons. Practical exercises are conducted in groups (3 participants in each group).

APPROVAL



The course covers all subject areas recommended by IMO Model Courses 7.14 "Advanced training for Masters, Officers, Ratings and other personnel on ships subject to the IGF Code". The course is certified by Latvian Maritime Administration.

The course also takes full account of section A-V/3, paragraph 2 of the STCW Code.

DURATION OF THE TRAINING COURSE



Including practical exercises, the duration of this course is 4 working days.



COURSE CONTENTS

Advanced Training course covers the following topics:

- Use of fuels addressed by the IGF Code;
- Physical and chemical properties of fuels aboard ships subject to the IGF Code
- Operation controls of fuel related to propulsion plant and engineering systems and services and safety devices on ships subject to the IGF Code;
- Safe performance and monitoring of all operations related to the fuels used on board ships subject to the IGF Code
- Planning and monitoring safe bunkering, stowage and securing of the fuel on board ships subject to the IGF Code;
- Precautions to prevent pollution of the environment from the release of fuels from ships subject to the IGF Code;
- Monitoring and control compliance with legislative requirements;
- Precautions to prevent hazards;
- Occupational health and safety precautions and measures on board ships subject to the IGF Code;
- Prevention, control, firefighting and extinguishing systems on board ships subject to the IGF Code.



THE COURSE PROGRAM

Theoretical Part:

- Chemistry, physics and the relevant definitions related to safe bunkering and use of fuels;
- Safety Data Sheet (SDS) information on fuels that are subject to IGF Code requirements;
- Design, characteristic of ships and principles of operation of marine energy equipment;
- Procedures for the safe and emergency operation of equipment, fuel, control systems;
- Impact of pollution on human and environment;
- IGF Code and related documents including MARPOL Conventions and other IMO instruments, industry guidelines and port regulations;
- Hazard and control measures related to the operation of fuel systems;
- Negative consequences of non-compliance with binding laws / regulations;
- Risk Analysis and risk assessment methods;
- Safe working practices and procedures in accordance with legislation and industry guidelines and personal shipboard safety including hot work, enclosed space entry and permit to work procedures;
- First aid measures according to the safety data sheet (SDS);
- Methods and equipment for the detection, control and extinguishing of fuels subject to the requirements of the IGF Code.

Practical Part:

- Theory and characteristics of fuel systems, including pumps for fuel systems and their safe operation;
- Application of safety procedures and checklists during the operation of fuel tanks;
- Operation of bunkering systems on ships subject to the IGF Code;
- Fuel measurements and calculations;
- Action in the event of a fuel spillage / leakage / venting;
- Calibration and use of monitoring and gas concentration systems, instruments and equipment on board vessels subject to the requirements of the IGF Code;
- Use of safety equipment and protective devices.



TRAINING APPROACHES AND EQUIPMENT:

The training consists of both theoretical and practical exercises that involve gas and the relevant systems, as well as personal protection while handling liquid and compressed gas.

Practical tasks are conducted using following equipment: MSA Multi-gas portable detectors, MSA Chemical indicator tubes, LNG simulator model - L3-DPA Simulations Group and Fire-Fighting simulator.