

# COMPETENCE UPGRADING COURSE FOR ENGINEER OFFICERS



## TARGET GROUP

Competence update training course is developed especially for Engineer Officers who have completed or started educational program based on STCW Convention Requirements, which were in force till 01.01.2012.



## OBJECTIVES OF THE COURSE

The objective of this course is to provide course participants with knowledge, understanding and proficiency in steam and gas propulsion systems, as well as high-voltage systems.



## COURSE CONTENTS

The Competence upgrading course divided on three sections and covers topics in the following areas:

- Ideal Rankine cycle;
- The real Rankine cycle;
- Steam turbine principles;
- Steam turbine structure;
- Systems of the propulsion plant;
- Preparation of systems;
- Main steam boilers;
- Main steam boilers for LNG carriers. Systems of boilers;
- Propulsion turbine operation;
- Main turbine start-up;
- Problem solving in steam turbines;
- Gas propulsion turbine operation. Prepare of systems;
- Gas propulsion turbine operation. Prepare of auxiliary DG;
- Gas propulsion turbine operation. Prepare of Main Propulsion Gas Turbine;
- High Voltage.

## APPROVAL



The course is approved by Latvian Maritime Administration in accordance with Section A-III/1 of STCW Code.

## ENTRY STANDARDS

Trainees wishing to enter this course should have:

- Certificate of Competence as Officer in Charge of a Engineering Watch; or
- Present evidence that is in progress studying on the educational program of Officer in Charge of an Engineering Watch.

## TRAINING APPROACHES AND EQUIPMENT:



During training course theoretical lessons are given using PowerPoint presentations, practical tasks are conducted on the latest version of Engine Room Simulator developed by Transas – ERS 5000.

## COURSE LIMITATIONS



The maximum number of participants – 12 persons.

## DURATION OF THE TRAINING COURSE



The duration of „Competence upgrading course for engineer officers” is 5 working days