



***UNIVERSITY OF RIJEKA***  
***FACULTY OF MARITIME STUDIES***

**THE TRAINING COURSE FOR YACHT MASTERS  
MANOEUVRING IN VARIOUS WEATHER AND SEA  
CONDITIONS**

*Rijeka, March 2004*

## **SCOPE**

The course consists of a series of practical exercises performed on a ship handling simulator. The lectures, to provide the necessary theoretical background for the exercises, are included. Also, an instructor controls the exercises.

The participants are expected:

- to make use of effective bridge procedures and ship handling,
- to comply with International Regulations for Preventing Collisions at Sea, 1972 (COLREG 1972), and
- to observe the basic principles of keeping a proper navigational watch

## **OBJECTIVES**

Course participants must demonstrate on the simulator:

- Familiarization with the use of engines and helm for ship manoeuvring
- An understanding of handling ships under various conditions and effects of wind, current, shallow water, narrow channels
- Also, course participants must demonstrate knowledge and understanding:
  - of the importance of planning a passage or manoeuvre and the need for an alternative plan;
  - of efficient bridge procedures during watch-keeping and ship handling in normal and in emergency situations;

## **COURSE DURATION AND EXAMINATION**

The course duration is 2 days (16 hours).

## **COURSE CERTIFICATE**

A course certificate specifying the training completed will be issued upon completion of the course in accordance with relevant national regulations.

## **COURSE INTAKE LIMITATIONS**

The number of participants is limited up to 6. They must be able to communicate in English



## **TEACHING AIDS**

Following teaching aids are available:

- Navi-trainer professional simulator Transas 2000 (multi-user)
- Navi-trainer professional simulator Transas 3000 (full mission bridge)

## **COURSE CONTENTS**

Subject area:

- Familiarization with the simulators
- Basic Maneuvering
  - Yacht stopped
  - Making headway
  - Making sternway
  - Turning levers
- Slow speed control
  - Safe and effective speed of approach
  - Rudder effectiveness
  - Loss of slow speed control
  - Maintaining slow speed control
- Effect of wind
  - Calculation of wind forces
  - Wind strength and direction of wind
  - Wind impact point
  - Effect of the wind on ship making headway
  - Effect of the wind on ship making sternway
- Shallow water effect and turning
  - Draft
  - Under-keel clearance
- Emergency operations
  - Emergency stopping
  - Emergency towing
  - Anchoring in emergency
- Simulator exercises