



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