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NTPRO 5000 Simulator

Instructor training syllabus

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Maritime Simulators and Training Facilities Network for Enhancing the Exchange of Good
Practices and Digital Learning
C1- Digital exercises on shiphandling simulator – exchange of good practices and building
tutorial digital courses

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1. NTPRO 5000 INSTRUCTOR OPERATIONAL TRAINING COURSE

Course Duration, Location and Participant Numbers

The following training duration is proposed:

Training course	Days
Instructors' NTPRO 5000 Operational training	4

As rule, Training Course is conducted on the customer site.

Aims and Objectives

The purpose of the course is to demonstrate the use of the WARTSILA NTPRO 5000 simulator, instructor functionality to teachers/instructors employed at the educational institutions / training centers. The training course scope is detailed in the following pages.

The training course is conducted using the appropriate type of activity: lectures and practical training, which are reflected in the basic Timetable.

Graduate examinations or assessments can be given. Personnel completing the training course successfully will receive a Certificate.

2. NTPRO COURSE STRUCTURE (TOPICS)

2.1. Simulators' Overview

- 1. General System principles and components
- 2. Protection key and license
- 3. Systems Startup
- 4. NTPRO 5000 Instructor Station
- 5. NTPRO 5000 Conning
- 6. Conducting of exercises using the NTPRO simulator
- 7. Systems Shutdown
- 8. Simulator's Helps and Documentation Set

2.2. Familiarization

2.2.1. Instructor Workstations

- 1. Instructor Monitor user interface General (windows, toolbars, controls, panels)
- 2. Instructor Monitor—modes of operation (Exercise Editor, Exercise Pre-playing, On-line control, Briefing and Debriefing)

2.2.2. NTPRO 5000 simulator

- 1. Conning Display and DHW panels
- 2. NavAids Conning Display page
- 3. Anchorage/Tug/Mooring Conning Display page
- 4. Lights/Signal/Flag Conning Display page
- 5. Transas Navi-Sailor 4000 ECDIS station
- 6. Transas Radar/ARPA station
- 7. Visualization Channels
- 8. Help system

2.2.3. Navi-Sailor 4000 ECDIS

- 1. Legal requirements and System features
- 2. Utilities
- 3. Sensors
- 4. ECDIS user interface
- 5. Basic navigational and watchkeeping functions
- 6. ECDIS tasks control















- 7. Alarms
- 8. Data logging
- 9. Help system

2.2.4. Radar/ARPA

- 1. Radar user interface
- 2. Handling of Radar
- 3. Handling of Targets
- 4. Handling of Charts
- 5. Alarms

2.3. Operation

2.3.1. Instructor Workstation

- 1. Exercise Editor mode:
 - Concept of Exercise library, structure of library
 - Exercise areas and Environment settings
 - Exercise objects and their properties settings
 - Towing exercises
 - Mooring exercises
 - TEAS and e-Tutor exercises
 - Printing feature
- 2. Exercise Pre-playing mode:
 - Start mode
 - Time acceleration/slowdown coefficient
 - Ship Controls
 - Ship Info panel
 - CPA/TCPA panel
 - Events panel
 - Ship Diagram panel
 - Pause mode
 - Stop mode
- 3. On-line control mode:
 - 3 scenarios of Exercises/Own ships/Bridges assignment
 - Loading of scenario data on the bridge
 - Start scenario on the bridge
 - · Changing of environment conditions
 - Equipment Faults and Failures intervention
 - Mooring operations
 - Tug operations
 - Lights/Signal/Flag operations
 - Main Log recording
 - Event Log recording
 - Individual training
 - Group training
 - Team training and joint exercises
 - Joint Exercises on NTPRO and ERS/TechSim Simulators
 - Pause/Resume scenario on the bridge
 - 'Save as' command
 - Stop scenario on the bridge
- 4. Briefing/Debriefing mode:
 - Operations with Log files
 - Loading Log files on the Instructor Monitor
 - Loading Log files on the Bridge
 - Log files playback
 - Log files printout















2.3.2. NTPRO 5000 Conning

- 1. Conning Display and DHW panels
- 2. NavAids Conning Display page
- 3. Anchorage/Tug/Mooring Conning Display page
- 4. Lights/Signal/Flag Conning Display page
- 5. Visualization Channels
- 6. Help system

2.3.3. Navi-Sailor 4000 ECDIS

- 1. Legal requirements and System features
- 2. Utilities
- 3. Sensors
- 4. ECDIS user interface
- 5. Basic navigational and whatchkeeping functions
- 6. ECDIS tasks control
- 7. Alarms
- 8. Data logging
- 9. Help system

2.3.4. Radar/ARPA

- 1. Radar user interface
- 2. Handling of Radar
- 3. Handling of Targets
- 4. Handling of Charts
- 5. Alarms

3. COURSE TIMETABLE

The Instructor's Operational Training Course will be conducted in a classroom environment in the debriefing theater using textual materials and visual aids, etc. The course will be designed to provide an understanding of the procedures described in the Instructor Manual and guidance in all facets of trainer operation and in the preparation of challenging simulator exercises. This will be followed by time in the trainee and at the instructor console during the course, demonstrating some of the most-used system features and capabilities and providing prospective instructors with hands-on training.

TIME	DAY 1	DAY 2	DAY 3	DAY 4	DAY 5
09.00	2.1 Simulator Overview (topics 1-9)	2.2.2 Familiarization NTPRO Bridge workstation (topics 1-6)	2.3 Operation 2.3.1 Instructor Workstation (topic 6)	2.3 Operation 2.3.2 NTPRO Bridge workstation (topic 3-4)	Exercise creation (Hands-on training)
10:30	Coffee break	Coffee break	Coffee break	Coffee break	Coffee break
11:00	2.2.1 Familiarization Instructor workstation (topics 1-4)	2.2.2 Familiarization NTPRO Bridge workstation (topics 7-11)	2.3 Operation 2.3.1 Instructor Workstation (topic 7)	2.3 Operation 2.3.2 NTPRO Bridge workstation (topic 5,8)	Exercise session (Hands-on training)
12:30	LUNCH	LUNCH	LUNCH	LUNCH	LUNCH
13:30	2.2.1 Familiarization Instructor workstation (topics 5-7)	2.3Operation 2.3.1 Instructor Workstation (topics 1-4)	2.3 Operation 2.3.1 Instructor Workstation (topic 8)	2.3 Operation 2.3.2 NTPRO Bridge workstation (topic 6).	Debriefing session (Hands-on training)
15:00	Coffee break	Coffee break	Coffee break	Coffee break	Coffee break
15:30	2.2.1 Familiarization Instructor workstation (topics 8-10)	2.3.1 Instructor Workstation (topic 5)	2.3.2 NTPRO Bridge workstation (topics 1-2)	2.3.2 NTPRO Bridge workstation (topic 7).	Operational Procedures
17:00	Review/ O&A	Review/ O&A	Review/ O&A	Review/ O&A	Ceremony:













	1	1	
			Presentation of
			certificates

4. FINAL CHECK OF KNOWLEDGE AND SKILLS

Upon completion of the training each participant will be given a hands-on assessment in the Operation of the NTPRO 5000 simulator. If the exams passed successfully, the graduation Certificate will be issued.

5. REFERENCE LIBRARY

Due to the brevity of the course, participants will be assigned specific documentation readings before the course begins.

	Manual	Publication date			
	English language				
	Main Library				
1.	NAVI-TRAINER 5000 (Version 5.35) Instructor Manual	October 2014			
2.	NAVI-TRAINER 5000 (Version 5.35) Navigational Bridge	October 2014			
3.	Multi-Function Display (Version 3.00.340) ECDIS Quick Reference	February 2016			
4.	Multi-Function Display (Version 3.00.340) ECDIS User Manual	February 2016			
5.	Multi-Function Display (Version 3.00.340) Additional Functions	March 2016			
6.	Multi-Function Display (Version 3.00.340) Utilities	February 2016			
	Additional Library				
1.	NTPRO 5000. Train the Trainer. Check List for Instructors.	July 2014			