



**Ship Handling and Safety of Navigation
*Training Module assisted by use of a Full Mission
Virtual Ship Handling Simulator***



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GENERAL INFORMATION

- **ECTS** - 2 credits
- **Country** - Bulgaria
- **Institution** - Nikola Vapzarov Naval Academy
- **Service** - Navy
- **Language** - English
- **Minimum Qualification for Lecturers** - Naval experience, NATO STANAG 6001, ENGLISH- Level 3
- **Prerequisites for international participants** - NATO STANAG 6001, ENGLISH- Level 2

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Goal of the Module:

- Basic Knowledge of Command and Control procedures in the Navy related to the ship`s safety.
- Familiarization with principles of Simple Maneuvering exercises and safety at sea.
- Skills for operating NATO Naval Tactical Messages.
- Skills for work and leadership in multinational environment.

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Learning outcomes

| | |
|--------------------------|---|
| <p>Knowledge</p> | <ul style="list-style-type: none"> • Formulate the basic principles of conducting Simple Maneuvering exercises based on the Command and Control procedures in the Navy related to the ship`s safety. • Define the Bridge Resource Management. |
| <p>Skills</p> | <ul style="list-style-type: none"> • Obtain common situational awareness in a dynamic navigational environment. • Use basic voice communication techniques and procedures on the bridge and within the bridge team. |
| <p>Competence</p> | <ul style="list-style-type: none"> • Exploit the resources on the Navigational Bridge in accordance with the basic voice communication techniques and procedures. • Establish and exploit efficiently the Command and Control system in accordance with assigned tactical level and ship`s safety requirements. |

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Verification of learning outcomes

- **Observation:**

The course is consisted of theoretical classes followed by practice on Full Mission Virtual Ship Handling Simulator, resembling a warship navigational bridge. During the practice the students performance will be observed.

- **Tests:**

The module learning outcomes verification concept is based on the assessment of the trainee's knowledge, skills, and competences revealed after their personal tasking during the training process supported by fictitious scenarios developed in a virtual environment.

- **Evaluation:**

The final evaluation of trainees is made on the basis of observation of the results on the practical tests during the final stage of the presented module. Upon completion Certificate of attendance, individual feedback and 2 ECTS are provided to each participant.

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MODULE'S E-Learning PART MAIN TOPICS

1. NATO Multinational Tactical signals and maneuvering Procedures.
2. Bridge Resource Management.
3. International Rules of the Road.

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MODULE'S RESIDENTIAL PART MAIN TOPICS

1. Command, Control and Communication (C3) principles in the Navy
2. Organization of Surface Naval Ship Navigational Bridge
3. Bridge Resource Management
4. International Rules of the Road
5. Harbor and Anchorage
6. Man Overboard
7. Surface Formations and Maneuvering of Surface Task Group
8. Bridge to Bridge Communications and Tactical Signals
9. Joint Sailing of Surface Task Group
10. Final Evaluation

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Duration

| | |
|-------------------|-----------|
| E-Learning | 30 |
| Resident Lectures | 30 |
| Total WH | 60 |



Questions?