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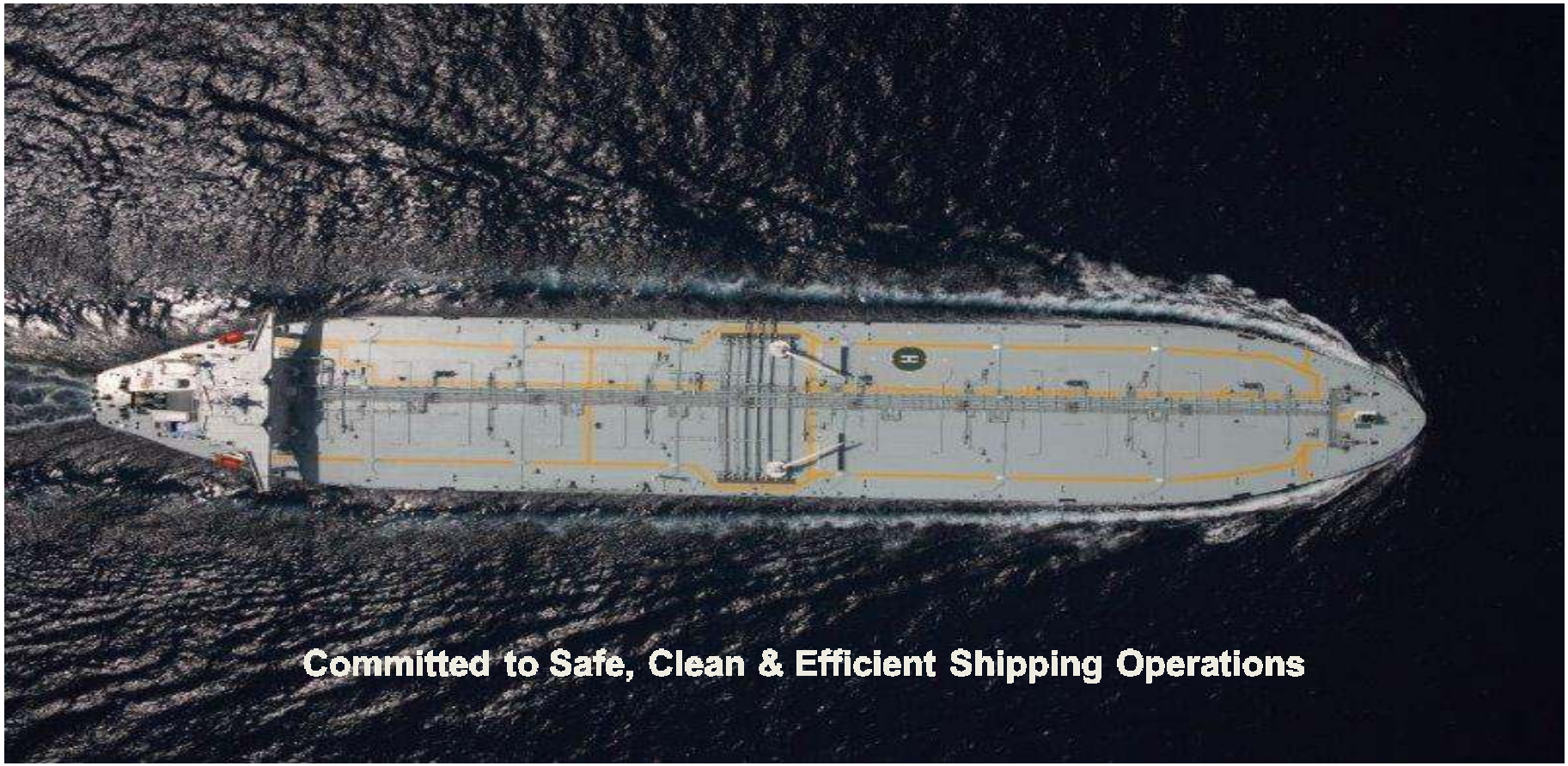
Introduction to the Changing Landscape of Maritime Training and Competence

S. Volakis, Training Manager



Promotion of Knowledge, Skills & Professionalism of Seafarers

According to the STCW Convention, the shipping company must:

- provide refresher and updating training at suitable intervals

- take all appropriate measures to instill pride in the maritime profession, and encourage the *creation of a safety culture and environmental conscience*

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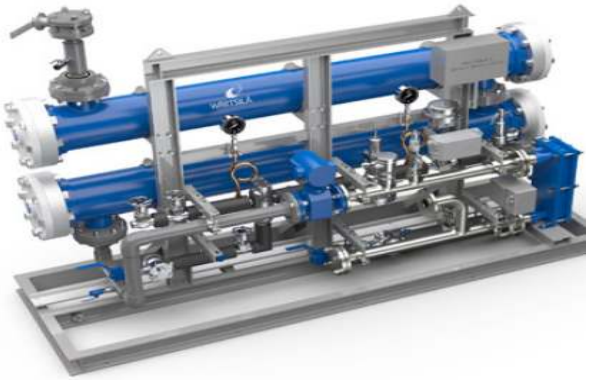
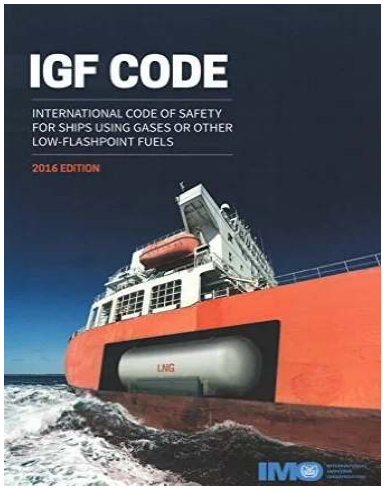
Competence is subject to continuous change

- Role and job changes
- New technology
- New rules
- Industry standards
- New business – company objectives





ATHINA
MARITIME LEARNING AND DEVELOPMENT CENTER

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"Where Seafarers Always Come First"

ATHINA Training Center – Mission

- To promote High Standards of Competence among the Seagoing Personnel of Minerva Marine.

- To help Sea-going Personnel advance their knowledge, skills and behavior in order to ensure Excellence in Operations, Safety and Performance.

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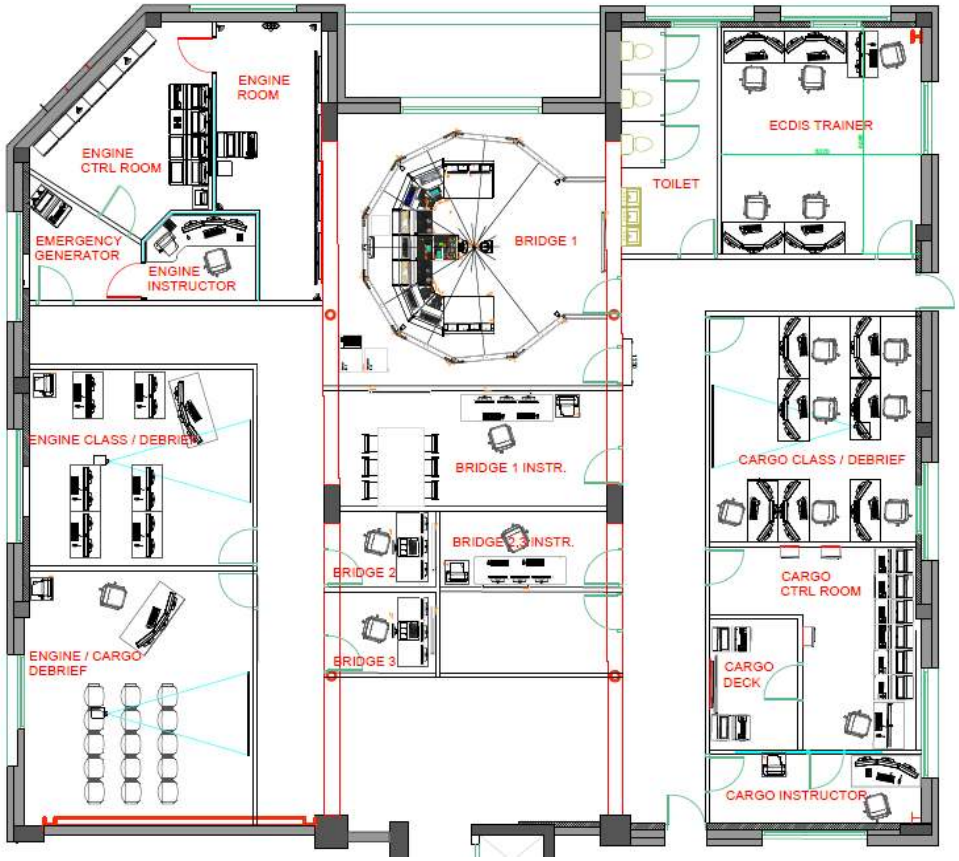
A State-of-the-Art Maritime Training Center

Facilities

- A Complex of Marine Simulators
- ECDIS Simulators Lab.
- Electrical/Mechanical Lab.
- Tanker Safety Lab.
- (6) Classrooms
- Admin. Offices, Lounge



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Ship Handling Simulator

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Ship Handling Simulator

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Simulated Voyages and Operations

Historically, the professional development has been based on a strong tradition of the onboard on-the-job learning.

Simulators as a Training Tool:

- Training takes place in a “safe environment”, no risks, mistakes are part of learning.
- Exercises can be repeated and terminated at any time.
- Exercises organized irrespective of weather conditions.
- Fill the gap between theory and practice.
- Reduce the in-service time required by some Flag States.

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Engine Simulator

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Engine Simulator

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Cargo Handling Simulator

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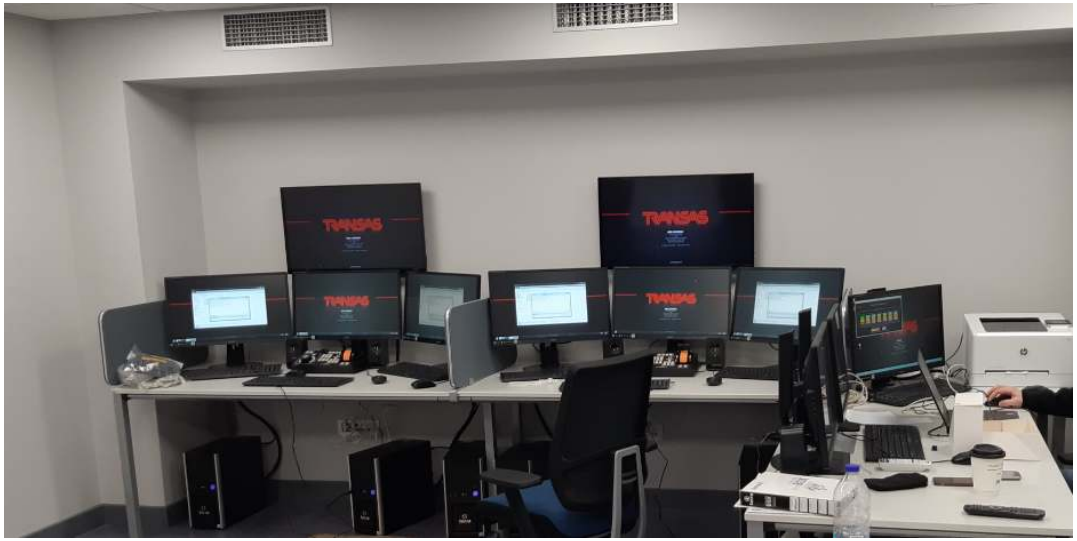
ECDIS Simulators Laboratory



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Laboratories

Training Courses

Navigation	• BRM – Ship Handling • Passage Planning with the use of ECDIS • ECDIS Familiarization
Technical/Engineering	• Engine Room Resource Management – Engine Simulator • MAN ME & RT-FLEX - WIN GD Electronic Engines • Fuels Management – Bunkering Procedures • Automation - Pneumatics
Safety, Environmental Compliance & Security	• Electrolysis-based Ballast Water Treatment Systems • Environmental Compliance – MARPOL 73/78 • Oil Record Book • Safety Officer and Risk Assessment • Incident Investigation • Drills and Exercises • Safety Leadership
Cargo Handling	• Cargo & Ballast Handling Simulator • Bulk Carriers – Cargo Operations • SIGTTO LNG Competence

LEARNING/QUALITY MANAGEMENT SYSTEM

a) STCW Principles

a) Instructional Design System for Seafarers

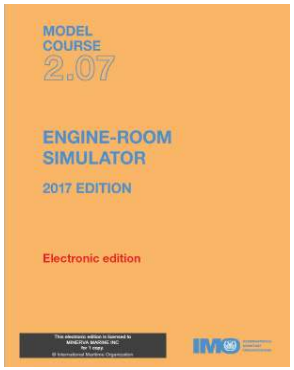
Identification of Training Needs	Design /Planning	Development	Implementation	Evaluation

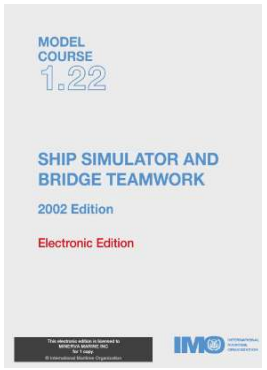
Repository of Training Needs
Use of all available means
Personal Training Log

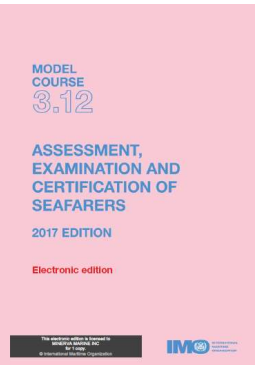
The process of defining what is to be learned

IMO Model Courses
Knowledge, Understanding, Proficiency
Exercises & Assessment

The process of specifying how it is to be learned.

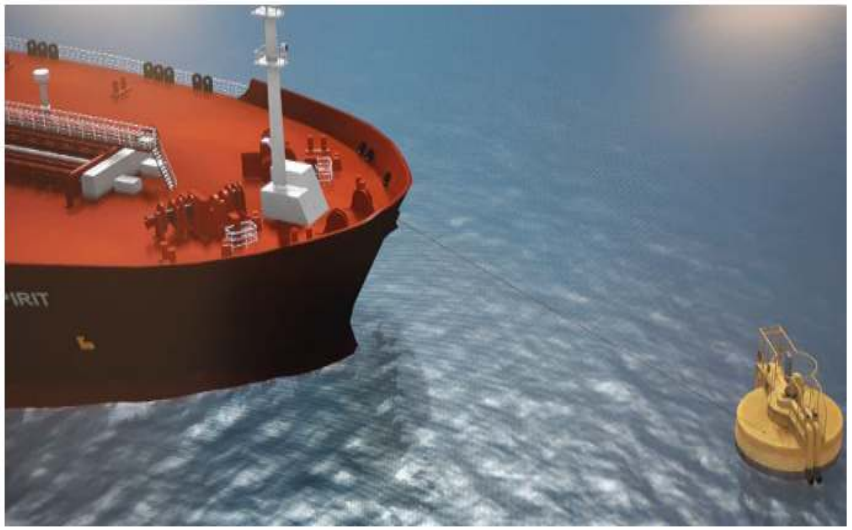






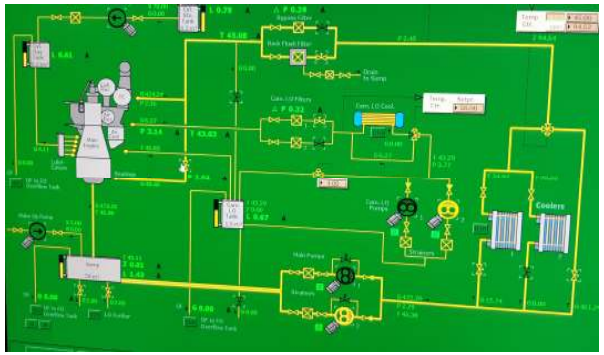
BRM – SHIP HANDLING SIMULATOR

- 5-day Training Course
- Based on the IMO Model Course 1.22 (BTM and Ship Simulator)
- Overall Aim is to obtain knowledge/skills on handling ships under various conditions and how they can contribute to bridge team during maneuvering
- Mixture of theory, calculations and 14 simulation exercises.
- Use of all (3) bridge simulators in parallel.



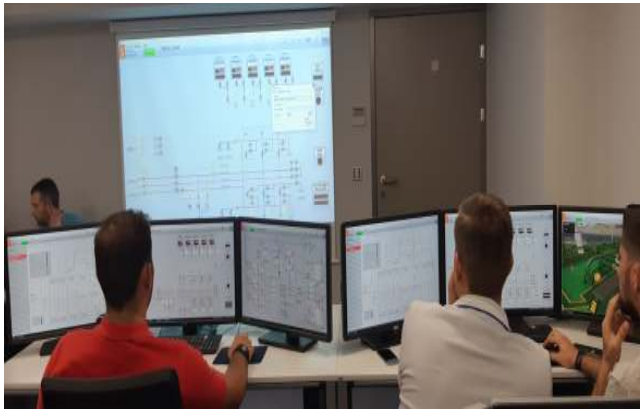
ERM – ENGINE SIMULATOR TRAINING COURSE

- 5-day Training Course
- Based on the IMO Model Course 2.07 (Engine Simulator)
- Overall Aim is to obtain knowledge/skills on the supervision and monitoring of propulsion plant and aux. machinery, acting as a Team.
- Extensive familiarization with Process Mimics (Engine Room) and IAS (ECR)
- 4 simulation exercises (Cold Ship MC, Preparation for M/E Stand-by, Stand-by to full away, Cold Ship ME).



CARGO/BALLAST HANDLING SIMULATOR (OIL)

- 5-day Training Course
- Based on the IMO Model Course 2.06
- Overall Aim is to obtain knowledge/skills on preparing, performing and monitoring cargo operations
- Mixture of theory, calculations and 10 simulation exercises
- Use of ANKO familiarization room and CHS Desk and Full Mission Simulators



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Proficiency/Competence Assessment

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Ship-Specific Training

Free-Fall Lifeboats
9 Ships

BWTS
12 Ships

M/R Aut. Breather
4 Ships

Dangerous Chemical CoF
14 Ships

CPP
3 Ships

Bilge Pre-Separation Tank – CDT/OCM
5 Ships

Electronic Engines
17 Ships

H/V Plant
8 Ships

Pers. Transfer Crane
5 Ships

Framo Ships
19 Ships

Bow Thruster
15 Ships

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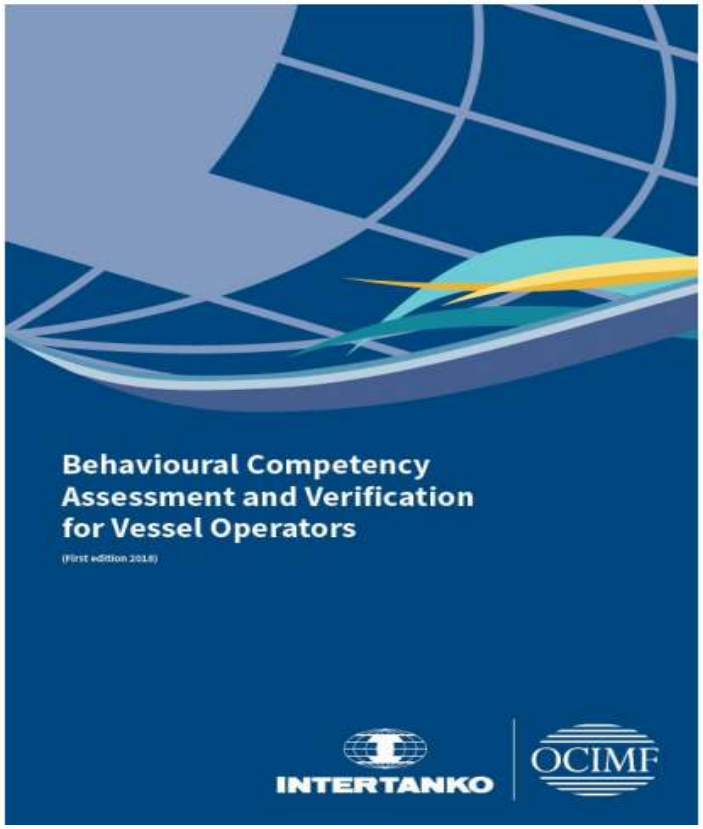
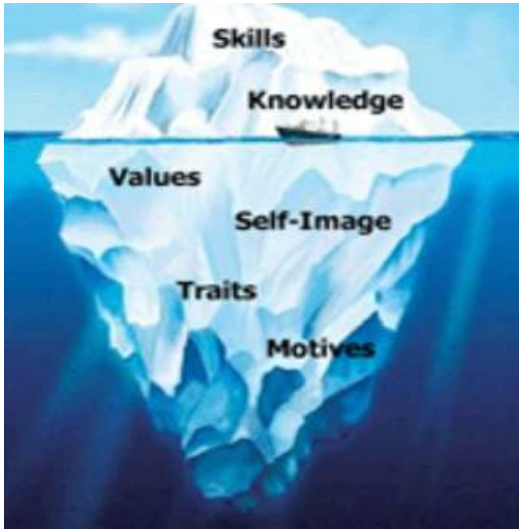
NEW COMPETENCE ASSESSMENT STANDARDS





Competency Domains, Elements and Behavioural Indicators

The competency framework itself consists of six competency domains:

- Team Working
- Communication & Influencing
- Situation Awareness
- Decision Making
- Results Focus
- Leadership & Managerial skills

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