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# LITHUANIAN MARITIME ACADEMY: C.E.M.E.R.E

## Lithuanian Maritime Academy -

Stable and long-term progress in terms of equipment, facilities and infrastructure at LMA:

- Simulators and their updates;
- Virtual reality facilities with AI;
- Unmanned waterborne AI included and areal vehicles;
- Infrastructure for conventional seafarers' training and renewable energy training facilities;
- 3D printing, scanning, CNC, laser cutting and design capabilities development;
- Scientists & Academic staff for LMA recruitment and preparation;
- Boosted cooperation with academic/scientific partners, uniformed services and business



## Lithuanian Maritime Academy

# SIMULATORS AND THEIR UPDATES / VIRTUAL, EXTENDED AND AUGMENTED REALITY FACILITIES WITH AI:

- Navigation simulator
- Engine room simulator
- Ship machinery simulators
- Port logistics operation simulators
- Portable navigation simulator
- New: VR simulators (MED, CTV, FPV); ROV

#### Status, Plans and Prospective:

- Simulators are up to date (NS, PNS, ERS)
- Development of Navigation simulator for DP
- Port logistics operation simulator update
- VR reality facilities with AI











## Lithuanian Maritime Academy -

### UNMANNED WATERBORNE AND AREAL VEHICLES:

- ROV
- AUV
- FPV
- Cabin boat









Status, Plans and Prospective:

- USV with AI
- ROV with mission planner











## Lithuanian Maritime Academy -

### 3D PRINTING, SCANNING, CNC, LASER CUTTING AND DESIGN:

- 3D printers
- Laser
- CNC
- 3D scanners



### Plans and Prospective:

- 5 axis CNC for metal materials
- 3D printer for composite materials





## Lithuanian Maritime Academy —

### SCIENTISTS & ACADEMIC STAFF FOR LMA - RECRUITMENT AND PREPARATION:

- great need for scientists and academics
- gradual renewal of personnel

#### Status, Plans and Prospective:

- Recruitment
- Long-term vision of personnel preparation

# BOOSTED COOPERATION WITH ACADEMIC/SCIENTIFIC PARTNERS, UNIFORMED SERVICES AND BUSINESS:

- ARMY (NAVY, MA), SBGS, LC
- Shipping companies

#### Status, Plans and Prospective:

- National and international academic and scientific cooperation
- ARMY (AF, GF)
- FIRE and RESCUE DEPARTMENT





## Lithuanian Maritime Academy

### INFRASTRUCTURE FOR CONVENTIONAL SEAFARERS' TRAINING AND RENEWABLE ENERGY TRAINING FACILITIES: C.E.M.E.R.E.

#### PRIORITY #1: Training programmes according:

- GWO (Global Wind Organization);
- IRATA (Industrial Rope Access Trade Association);
- SOLAS (International Convention for the Safety of Life at Sea);
- OPITO (Offshore Petroleum Industry Training Organisation).

### Pool (5 x 25 m)

**PRIORITY #2: Additional activities** 

- Diving Academy
- UWV Academy and test site
- Renewable energy training

#### Chronology:

- ✓ Feasibility study 2023 AUG
- ✓ Start 2023 OCT
- ✓ Land preparation 2023 OCT-2024 JUL
- ✓ Design 2024 OCT 2025 APR
- ✓ Open tender 2025 APR JUN
- ✓ Construction 2025 JUL 2026 AUG (exp.)
- ✓ In operation 2026 DEC (exp.)
- ✓ Certification 2026 OCT 2027 MAY (exp.)
- ✓ Fully operational 2027 JUN (exp.)



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# C.E.M.E.R.E





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# C.E.M.E.R.E





# C.E.M.E.R.E







### A SMOOTH SEA NEVER MADE A SKILLED SAILOR

John George Hermanson

