



## University of Rijeka, Faculty of Maritime studies

**PROJECT ACRONYM AND TITLE:** Formalisation of maritime knowledge and its implementation in safety, security and pollution prevention activities (ForMark)

**FUNDING PROGRAMME:** Scientific-Research Project Initiatives of The University of Rijeka (ZIP UNIRI)

**PERSON RESPONSIBLE:** Damir Zec, Ph.D., Full Professor

### FINANCIAL DATA

Project total cost	Overall funding assigned to PFRI
11.546,88 €	<b>11.546,88 €</b>

### SUMMARY

The maritime industry is undergoing faster and more intensive changes, with technological developments, accelerated communication, automation and IT advancement, which are changing business processes. In these circumstances, the only leverage an organisation has is the knowledge that it creates. With new developments in the maritime industry and shifts in the market, maritime knowledge adds up and requires us to formalise and organise it.

Maritime knowledge has been formalised internationally in the International Convention on Standards of Training, Certification and Watchkeeping, 1978 (STCW), as amended. It defines the minimum knowledge and competencies for different levels and functions. The issue of wording the skills and competencies have been discussed among IMO members, and the taxonomy of action verbs, based on Bloom's taxonomy, has been established for a particular level of knowledge. The goal was to achieve a unified understanding and accurately depict the necessary skills and competencies.

This phrasing of maritime knowledge, aimed to harmonise the implementation of the STCW Convention, consists of specific notions, indicating actions and objects that are mutually semantically interconnected. Using methodology from the area of corpus linguistics, this research aims to analyse the underlying concepts and semantic networks revealing patterns in maritime knowledge structure. This would improve the understanding of how maritime knowledge is communicated and framed, providing valuable insights for development in MET concerning future skills and competencies.

This research aims to analyse the structure of maritime knowledge representation as formalised in the essential documents on safety, security and pollution prevention.

Start date	End date
01.06.2023.	31.05.2026.

**WEBSITE:** -

**ADDITIONAL INFORMATION:**

Members of the project team:



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