

Green and Efficient Danube Fleet- **GRENDEL**

WP3- Act 3.3

Training requirements

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Act. 3.3-Key activities on training requirements

Consolidated human resources and E & T requirements providing and overview of new skills and additional workforce on-board of the vessels as well as of other personnel.

Define curricula for the additional E & T needs required for the implementation of greening technologies in order to ensure efficient investment in E & T systems at all levels

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Stakeholders involvement

Contribution to improving the Stakeholders data base, established in Danube SKILLS project

Contribution to improving the national legislation inventory governing E&T in the Danube Region, established in Danube SKILLS project

Dissemination of the EU Directive 2017/2397 on the recognition of professional qualifications in inland navigation

Participation in national workshops/ public consultations

Participation in identifying the future requirements of competences for the workforce in the sector, the new jobs required in the sector, and the new education & training requirements

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Main result and added value for stakeholders

The main result:

better qualified and internationally recognized workforce,
achieved through continuing cooperation with the relevant stakeholders.

Well qualified human resource through continuous improvement of knowledge and skills according to the technological development and modernization of the sector.

Using a well qualified workforce means **added value for the sector and for the relevant stakeholders** which is reflected in safety of navigation, transport efficiency and optimization, protection of environment.

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Danube SKILSS and CESNI

CESNI – drawing up Standards in Inland Navigation – added to the EU Directive 2017/2397 as delegated acts

Standards for competences;

Standards for simulators;

Standards for practical examination;

Standards for medical fitness.

Standards for competence – used in Danube SKILLS project in preparation of **two transnational model courses-** *useful tools for training institutions in professional qualification of inland navigation personnel during the implementation of EU Directive 2017/2397 in E & T system.*

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Danube SKILSS and CESNI

Danube SKILLS ongoing activities

Policy support strategy for nautical education- transposition and implementation of the EU Directive 2017/2397 into the national legislation and E & T systems –*useful roadmap for the implementation new legislative requirements.*

CESNI ongoing activities

Work programme of CESNI 2019-2021:

Revision of the adopted standards on competences with a special view to include new technologies and new future oriented-skills;

Standards for smart shipping, including environment-friendly and efficient navigation (eco navigation);

Standards for the use of digital tools for training and examination with a simulator for stretches with specific risks;

Contribution to the setting of **technical requirements for training vessels** in cooperation with CESNI/PT

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GRENDEL contribution on CESNI work

Identification of the investments requirements for Danube fleet-modernization, retrofitting and/or new-building.

Know-how transfer events for advising fleet operators & other relevant stakeholders about greening technologies focus on: use of alternative fuels, reduction of air pollutant emissions and reduction of energy consumption.

Improved transport & logistics management processes of fleet operators making use of digitalization and considering available tools and services, including RIS, as well as future requirements derived from modern global logistics.

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GRENDEL contribution on CESNI work

Identifying new professions in the sector as a result of fleet **modernization**.

Identifying new competences for existing workforce and for the new identified jobs.

Identifying the new education and training requirements to adapt the competences of personnel according to the changes in the sector.

Know-how transfer events for advising fleet operators & other relevant stakeholders about greening technologies focus on: use of alternative fuels, reduction of air pollutant emissions and reduction of energy consumption.

Improved transport & logistics management processes of fleet operators making use of digitalization and considering available tools and services, including RIS, as well as future requirements derived from modern global logistics.

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Thank you for your attention!

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GRENDEL “Green and efficient Danube fleet”

Towards modernisation & greening of Danube inland waterborne sector and strengthening its competitiveness

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