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TALLINNA
TEHNIKAKÕRGGKOO
TTK UNIVERSITY OF APPLIED SCIENCES

EDU-RAIL: Harmonised and Modernised Multidisciplinary Railway Education



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EDU-RAIL: Harmonised and Modernised Multidisciplinary Railway Education

Cross-border cooperation enables the educational institutions of the 3 Central-Baltic countries to achieve the necessary methodological strength to develop **integrated approach** how the railway professional education and VET institutions can support the regional railway enterprises to **pave the way to the European Railway Area**. With the joint effort project aims to elaborate methodological approach for **less fragmented, innovative, covering regional aspects** and **needs of labor market railway related professional education and VET**.



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EDU-RAIL Project partners

- Partner 1 (LP) **TTK – Technical University of Applied Sciences, Tallinn, (EE)**
- Partner 2 (PP) **KRAO – Kouvola Railroad and Adult Education Company (FI)**
- Partner 3 (PP) **TTI – Transport and Telecommunication Institute (LV)**
- Partner 4 (PP) **HAMK – Häme University of Applied Sciences (FI)**
- Partner 5 (PP) **RTU – Riga Technical University (LV)**



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What has been done

- **Five aligned specialization modules for railway engineering education and VET** have been predefined jointly and in detail worked out based on the studies and expertise of all partners.

What has yet to be made

- Working out **relevant teaching and study materials** for selected subjects of modules.
- Analysis and working out **e-learning methodology and materials**, with the support of partners' e-learning platforms.
- Working out **teaching methodology for use of railway simulators** on bases of existing facilities of KRAO and TTK, including aspects of cross border cooperation.
- **Piloting of aligned specialization modules** in the partner institutions .



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Under development are the following modules

1. **Module 1 : “Single European Railway Area”**, Responsible TTI + all partners;
2. **Module 2 “General professional knowledge and requirements regarding the license”**, *responsible KRAO*
3. **Module 3 “Service Oriented and Intelligent Transport System in the Context of Opening Markets”**, *responsible HAMK*
4. **Module 4 “Control and Command Systems of Rail Traffic”**, *responsible RTU*
5. **Module 5 “Logistic management and operating of rail transport”**, *responsible TTK*

The volume of specialisation modules is estimated to be in average 15 credit points



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Outlining modules by subject lists will start from defining below mentioned common for all study modules basic objectives:

- More harmonized and less fragmented railway education curricula as bases for all modules
- Development of single European Railway Area, (Interoperability, regional aspects))
- Operating in open market of rail services, ability in team work of multinational environment
- Ability to work in digitalized operating environment with cyber risks
- New thinking models for rail business
- Valuating environmental protection aspects, ethic problems and safety and security aspects



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In Tallinn Technical University of Applied Sciences under progress is simulator for driving Stadler trains, which are operating the all domestic passenger transport in Estonia

