

| Element | Description |
|----------------------------------|---|
| Title* | <i>Development and Implementation of Guidelines for General Education Subjects Adapted to Automotive Professions</i> |
| Name of the VET Provider | <i>Centre of Excellence in Transports (Chişinău, Republic of Moldova)</i> |
| Thematic domain | <input type="checkbox"/> Innovation <input type="checkbox"/> Lifelong learning <input type="checkbox"/> Creating partnerships/skills ecosystems |
| Introduction* | <p><i>The need to adapt curricular content to the specific requirements of automotive professions led to the initiation of a process for developing guidelines for general education subjects: mathematics, physics, chemistry, and foreign languages (English and French).</i></p> <p><i>Within the Centre of Excellence in Transports, it was observed that traditional teaching of these subjects, without direct correlation to the professional field, reduced the relevance of learning and its impact on the development of students' professional competencies.</i></p> <p><i>Therefore, the institution initiated a complex process of curricular modernization aimed at integrating general education subjects into the context of automotive professions such as:</i></p> <ul style="list-style-type: none"> - <i>Auto mechanic</i> - <i>Auto electrician-electronics technician</i> |
| Stakeholders and Partners | <p><i>Target group / beneficiaries:</i></p> <ul style="list-style-type: none"> - <i>Students in vocational technical education</i> - <i>Teachers of general education subjects</i> - <i>Teachers of specialized/technical subjects</i> - <i>Institutions related to the automotive field</i> <p><i>Partners and cooperation:</i></p> <ul style="list-style-type: none"> - <i>Affiliated institutions in the field</i> <p><i>Development partners:</i></p> <ul style="list-style-type: none"> - <i>EU4Moldova</i> - <i>CONSEPT5</i> <p><i>The Centre of Excellence in Transports acted as a facilitator, bringing these projects together in a common framework for discussion, negotiation, and curricular analysis.</i></p> <p><i>Multiple sessions were organized, including:</i></p> <ul style="list-style-type: none"> - <i>Discussions and negotiations</i> - <i>Curricular analysis</i> - <i>Joint planning</i> |

Impact*

Currently:

24 vocational schools in the Republic of Moldova implement the developed guidelines

They are used in the following subjects:

- *Mathematics*
- *Chemistry*
- *Physics*
- *Foreign languages (English and French)*

Impact includes:

- *Increased relevance of learning for students*
- *Active student engagement in the educational process*
- *Improved connection between theory and practice*
- *Concrete support for teachers*

Additionally:

- *The guidelines were approved by the Ministry of Education and Research of the Republic of Moldova*
- *Implementation has been achieved at national level*

Innovation and Success Factors *

The initiative contributed to innovation through:

- *Integration of general education subjects into a professional context*
- *Interdisciplinary and inter-institutional collaboration*
- *Active involvement of specialized teachers in identifying real professional needs*
- *Use of participatory methods such as:*
 - *Round tables*
 - *Debates*
 - *Brainstorming sessions*
- *Organization of experience exchange sessions and professional information sessions*
- *External validation through national-level peer review*
- *Development of complete methodological support, including long-term planning*

Key success factor:

The institution's strategic role as a facilitator, successfully bringing together major development projects (EU4Moldova and CONSEPT5) into a unified curricular development process

Constraints*

Challenges encountered included:

- *The need to align general education content with professional requirements*
 - *Transition from traditional teaching approaches to contextualized teaching*
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- *Coordination between teachers from different disciplines*

Solutions:

- *Collaborative approach involving both general and specialized teachers*
- *Continuous consultation and joint planning*
- *Development of clear methodological guidelines and structured planning tools*

Lessons learned *

- *General education subjects become more effective when contextualized in real professional situations*
- *Collaboration between teachers of different disciplines is essential*
- *Active involvement of specialized teachers ensures relevance to labour market needs*
- *Participatory methods improve both teaching quality and curriculum design*
- *External validation strengthens the quality and credibility of educational resources*

Replicability and/or up-scaling

The initiative demonstrates strong potential for replication at national and international levels.

Conditions for replication:

- *Strong collaboration between general and specialized teachers*
- *Institutional support for curricular innovation*
- *Development of clear methodological guidelines*
- *Involvement of external partners and stakeholders*
- *Adaptation of content to the specific professional field*

The model can be extended to other professional domains beyond the automotive sector.

Contact details

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Related resources that have been developed

- *Methodological guidelines for general education subjects*
 - *https://cetauto.md/wp-content/uploads/Ghid_chimia_N3.pdf*
 - *https://cetauto.md/wp-content/uploads/Ghid_fizica_N3.pdf*
 - *https://cetauto.md/wp-content/uploads/Ghid_limba_straina_N3.pdf*
 - *https://cetauto.md/wp-content/uploads/Ghid_matematica_N3.pdf*
- *Long-term planning documents for each discipline*
- *Structured curricular content adapted to professional context*

These resources support teachers in transitioning from traditional teaching to contextualized, profession-oriented instruction.
