

The project consists in the creation of an on-line course to improve qualifications of secondary school teachers in training competencies of the future. Guide 4.0 will map student competencies against a digitized map of competencies necessary in economy 4.0. Mapping student competencies will allow teachers to develop an individual (or group) development process. Guide 4.0 will be developed together with Manual (traditional and multimedia: tutorial with e-learning training).

The course will be a pilot for two groups of teachers (44 people). The aim of the project is to improve the quality of education processes in Poland, in a way that would allow to adapt education to the needs of the labor market developing towards economy 4.0. The implementation of the project will improve the quality of developing competencies of the future among students, which will contribute to increase competitiveness of the Polish economy.

Activities planned for the project:

Creating a map of competencies of the future, professions of the future and educational tools

Development of Guide 4.0

Development of a handbook for teachers

Development of a training course

Promotion of the Guide 4.0

Activities carried out under the project will be addressed directly to the teaching staff of secondary schools. Indirectly, the activities will also apply to students who, thanks to Guide 4.0, will develop their competencies more effectively. The result of the task will be the development of a comprehensive training course for teachers based on Guide 4.0. The result of the task will be the qualitative development of competencies and skills of students who will be educated by teachers prepared for the challenges of economy 4.0.

Industry 4.0

The project "Guide 4.0 – how to educate competencies of the future" consists in creating an on-line training course increasing the qualifications of secondary school teachers in training the competencies of the future.

The training methodology used in the course will be based on the educational tool created as part of the task, which will be the online Competence Guide for the Future (Guide 4.0). Guide 4.0 will allow mapping students' competencies against the background of a digitized map of future competencies necessary in the 4.0 economy. Mapping student competencies will allow the teacher to develop an individual (or group) development process. Guide 4.0 will be developed together with Manual (traditional and multimedia form: tutorial with e-learning training). The course will be tested as a pilot for two groups of teachers. The above short description of the project is a well-thought-out concept, the essence of which is to create a mass program (and tools) to improve teachers' qualifications in shaping the competencies of the future among students. On the one hand, the project will allow the teaching staff to be trained, and on the other hand, it will equip these staff with tools (Guide 4.0 and the Handbook) that will facilitate their daily work with students. The Applicant's project is a closed whole as a comprehensive methodology for educating teachers, allowing them to prepare students as effectively as possible to the challenges of the economy 4.0. Both applicants will be involved in the implementation of most of the project activities. The Foundation plans to place great emphasis on the transfer of knowledge and good practices from the partner's education system (Norway). As part of the project implementation, a number of activities will be undertaken, which have been grouped by the Applicants in four phases (described in detail in point 5):

Phase I – preparatory, during the first phase of the project implementation, the operational details of the implementation process of all activities planned in the project will be detailed.

Phase II – data analysis and collection, as part of the second phase of the project, analytical work will be carried out, seminars and internal workshops of expert groups will be held, which will result in the creation of a map of future competencies, a catalog of educational tools developing competencies of the future, and a map of future professions.

Phase III – creating studies, the third phase of the project is its core. Work under this phase will start in parallel to phase II. In the third phase, all key elements of the task will be developed, which in the fourth phase will be piloted and promoted.

Phase IV – pilot and promotion, in the last phase of the project implementation, recruitment of teachers (2 groups) will be organized to participate in a pilot training course using the tools developed in phase III

of the project. Before and after the pilot, the Applicant plans to undertake promotional activities.

Activities carried out in the project will directly contribute to the achievement of its objectives (horizontal and specific). By implementing a training course and tools: Guide 4.0 and a handbook for teachers, the effectiveness of the processes of educating human capital in Poland towards the needs of the economy 4.0 will be improved. Despite the clear trend and popularization of the idea of economy 4.0, the area of training the competencies of the future is still a neglected element of the Polish education system. Activities planned as part of the project, consisting in the work of expert groups, creating and programming tools (described in detail in other points) are elements that directly create the results planned in the project.