

## RESULT NO. 12

### **Results (local WP) available on partners` web:**

All results are available on partners` website in relevant national language by each partner.

Šolski center Nova Gorica:

Evaluation will be carried out on the basis of common evaluation questionnaire. Aim is to compare actual data about execution of process of making of electric car with the ones from application form of the project and to evaluate how good execution has been held on behalf of the one we have planned.

Questionnaire for students as well as for teachers who are working on the project was made. Decision for common questionnaires was made because of easier comparison of answers and easier processing of data and making of analysis. With the evaluation we want to gather data and opinions of pupils and teachers who worked on the project.

Pupils will be asked about learning process, general conditions, teachers, contents, material and acquisition of knowledge and evaluation process. (see result no.8).

Teachers will be asked about performance of teaching process, general conditions, pupils, contents, material and lecture and evaluation process (see result no.8).

Evaluation will be made after finished phase of each group. On the basis of evaluation we will gathered questionnaires and make an analysis.

ITI Cardano:

Evaluation is not only useful for assessing the level of student learning, but also to judge the effectiveness of a method of teaching and working and also the process of teaching-learning and the relationships between participants in the educational process. The questionnaires administered to students and teachers within the MESA Project have precisely this intention. In fact, the questionnaires were structured in such a way as to obtain data on these fundamental points on which you can rely for a comprehensive and targeted assessment on the development of the project:

- General terms of the learning context,
- Participants (needs, prior knowledge, individual contributions ...)
- Students (the learning pace, level of attention, skills ...)
- Teachers (professional skills, knowledge transfer mode ...)
- Evaluation of learning both theoretically and practically.

By comparing and triangulating the data extracted from the questionnaires of students we can conclude that:

- Generally the students involved in the project work collaboratively in small groups, helping each other and pooling their skills,
- They are attentive to the process. In the sense that first they seek to understand the procedures in theory and then apply them in practice
- They work in close contact with teachers

By comparing and triangulating the data extracted from the questionnaires of teachers we can conclude that:

- Teachers are also providing the skills acquired outside the school context,
- They put in place significant potential for scaffolding while aiming to meet the level of autonomy on the part of students,
- They create an environment and learning conditions other than those put in place in the traditional class. Students feel at ease and work with more confidence.

## Conclusions

The articulation of the MESA project has produced a new methodological approach based on the finalization of the study subjects no longer an end in itself for pure theoretical abstraction but oriented to the study of factual phenomena. The realization of the MESA project involved the teachers in an experimental teaching both theoretical and practical, leading to new methods and criteria for evaluation, not just theoretical as it was in the normal school practices, but also by observing and evaluating the design and technical-operative skills of students.

TS Pula:

Evaluation questionnaire is compiled by each partner separately.

Combining all the questionnaires it is made one common.

Evaluation questionnaire examined the level of involvement of students and teachers in the project.

We wanted to see whether the students and teachers were ready to work on the project.

We are interested to working conditions and whether the students eagerly participated in the acquisition of new knowledge.

We were also interested in teacher - pupil relationship; how students have seen themselves and how teachers in such relation.

Finally, the important thing was the total score and what are the benefits of this project for both sides.

Le Vele:

Le Vele is implementing the evaluation, in accordance with the Lombardia Region guidelines, the process and procedures for the certification of informal and non-formal competences for the solar panel installer.

The satisfaction questionnaire contains the following sections:

- SECTION A-coherence of the course with the expectations-The course was relevant to your expectations?
- SECTION B-course contents compared with the objectives of the course-the contents were consistent?
- SECTION C-preparation of teaching staff-The technical preparation of teachers and the teaching methodology have been adequate?
- SECTION D-organization of the course location-Overall, the organization and location of the course have been appropriate?
- SECTION E-the adequacy of facilities/equipment-Training materials, infrastructure and equipment available were adequate?

The questionnaire is implemented in a web application and the users are filling the answers to the questions on line. The statistical results are automatically calculated by the web application.

In the next session of the courses we will take in consideration the results of the MESA project and propose to the Lombardia Region the updating of the questionnaire.