

Transfer concept:

Our first and main idea was to transport the knowledge that was developed in the SIAT project. Following steps were made to prepare the transfer of knowledge to partner schools in Croatia and Turkey:

1. Visit to Croatia and Turkey
2. Presentation of educational contents and programs from Flexcell
3. Environment check (pre-knowledge, appropriate staff/teachers, existing equipment: hardware, software, possibilities of changing the curricula or incorporate the topics in existing curricula)
4. On the basis of gained information from HR and TR partners on their needs about the educational topics and their equipment, which is necessary to perform these new contents, we selected topics for the schools according to the interests of the schools, the appropriate teachers, interest of the local companies (on the basis of questionnaires for schools and enterprises)
5. The made analysis showed that we have to adapt the material for the transfer according to demands for the different target groups:

Training material for teachers (planned were brochure and printed handbook, on the basis of performed trainings we found out that due to the distance to the partners we have to develop some other form of trainings that were not planned in the initial project idea and give the possibility to learn also at home. We developed e-learning elements using moodle with some topics – material uses videos, learning contents with exercises, photos with description... We also established and offered a new communication channel TeamViewer to communicate with laboratories in Wolfsberg. In that way HR and TR partner schools were able to produce products designed by their pupils.

Training material for pupils/students: printed handbook, e-learning elements using moodle, brochure

Training material for employees in enterprises: on the basis of a questionnaire for enterprises certain needs for topics from the field of automation were established and afterwards material for training was prepared – 5 trainings were realized in Slovenia for SME's.

During the preparation of training material it was getting evident that we have to be open to use new possibilities of communication and new facilities of learning.

We used new software for the field of CNC programming, so new free licenses ZWSoft for all partners were offered and gained. Croatian and Turkish partners were trained and have free licenses for teachers and students installed. ZW3D is an integrated CAD/CAM solution designed for the complete product development process, features the fastest kernel for Solid-surface hybrid modeling, non-solid mold parting and smart CNC machining tactics from 2 axes to 5 axes. It brings customers endless benefits such as reduced costs, optimized design workflow and improved efficiency.

To establish and maximise the outputs of learning not only printed material was prepared but also e-learning with moodle was developed. Moodle is a free learning platform in the internet that allows you to generate online courses, seminars and so on.

TeamViewer is the all-in-one software for remote support and online meetings. You can remote control any computer or Mac over the internet within seconds or use TeamViewer for online meetings.

You can control the programmable logic control (called plc) by using a computer or pdf via internet. So it is possible to use the hardware from the HTL Wolfsberg from every place of the world you want. You can see the hardware via a webcam and you can program the plc and test the hardware. The user can program the plc and can also make tests with the real hardware. If it is necessary to change something in the hardware application you can communicate with people in the laboratory by using videoconference and chat software.

This software is included by remote software; therefore you don't have to install new software for use.

Through new approaches the project gets an added value and different learning and teaching possibilities for the partners, who can choose what is best for their training and teaching. Both partners already put some of the chosen topics into the school curriculum. Some of the teachers already teach and use the developed materials. In Turkey training for employees in companies was performed and 10 participants gained the certificate.