

DESCRIPTION OF THE PROJECT



COMENIUS SCHOOL PARTNERSHIP

„European CNC-Network – Train for EUROPE - RELOADED“

The "Train for EUROPE - RELOADED" is meant to be a follow-up of our successful COMENIUS School Partnership "European CNC-Network - Train for EUROPE", which was the winning project of the EUROPEAN CHARLEMAGNE YOUTH PRIZE 2010.

The main goal of the partnership will be to initiate a long lasting and sustainable development of a „European CNC-Network“. With the help of CNC, precise work pieces and components could be produced by programming and controlling machine tools. Essential features of this new partnership have already been determined by the resolution we made during our preparatory visit in Dunaújváros in December 2009.

But the new project adventure "Train for EUROPE - RELOADED" is certainly not just simply a copy of the forerunning school partnership. As the framework of the project and demands on participants have consciously been changed and adopted, the planned school partnership will have a completely different structure and new organisation. Moreover, new impulses are expected because some partners left the project and new ones have joined.

The motor-driven locomotive and the wagons will be improved in order to fit into the new concept of the project. The locomotive and the wagons should have a gauge of 90 mm and a length of 300 up to 400 mm. The students will have to decide, if the already existing locomotives should be technically improved or if a completely new construction is of advantage.

The wagons will consist of standardized undercarriages and specific upper parts connected by a common clicking system. The individual upper parts will have to be designed under a common motto, which also have to be defined at the first meeting. We have thought about depicting a famous technical invention of each country. For example, the British wagon could carry a telephone (also produced by CNC-technology), because the Englishman Graham Bell is supposed to be the inventor.

This time the new partnership will also include electro-technical challenges. Therefore a "European Electronic Map" shall be developed. The "European Electronic Map" is a map meant to display the geographical outlines of the different European countries and is manufactured as a large puzzle on the basis of CNC-technology. Each wagon will be equipped with electronic devices in order to communicate with the "European Electronic Map" and will be able to switch on a lamp for example.

This partnership will be supported by a large number of accompanying activities. The partners will develop a CNC-based course in order to be used in lessons. The course will deal with the production of a wagon undercarriage. The participants will also cooperate in exchanging and developing teaching methods and materials, in developing the existing internet platform www.cnc-network.eu as a basis for a long-lasting communication and in enlarging the internet-based multilingual technical dictionary including a new final online test.

Each step of the project requires the continuous engagement of the students. The project is integrated in the targets and goals of the curricula for the training programs of the different metal-working and electro-oriented professions. Communication among project partners will mainly be internet-based. Therefore, the partners and especially the students should be provided with the technical equipment and methods needed for internet-based communication. The trainees involved will get a lot of authentic experiences in CNC technology by working hand in hand together. Associated partners are also welcome to take part in this school partnership.

The partners are convinced that this partnership is perfectly suited to work out another successful project supported by the "European CNC-Network". The result of our efforts symbolizes the successful cooperation of the different European educational institutes. We are confident that with this project we have found again an excellent example that will represent and enhance the "European spirit".