



Thursday, June 4th 2015 1:30 PM - Konya, TURKEY

Results of ProjectX implementation in each country

Work Package Aims
The objective of this WP is that each participating school test at least one of the ProjectX developed in the WP4. The purpose is to determine in a small scale the feasibility, advantages and disadvantages of using the ProjectX in the classroom.
Description of Activities
The Pilot Test will be performed in order to detect possible lacks or inconsistencies of the proposed training ProjectX, contents and support material. It will be executed in each of the participating schools and this task will imply: 1. Planning of the Pilot test. a. Selection of the ProjectX b. Selection of the participants c. Organization of training d. Design of the questionnaires for the internal assessment 2. Execution of training 3. Assessment Process: from students and teachers. Both will provide qualitative and quantitative feedback and they will be the basis for subsequent changes, therefore ensuring relevancy and quality of the new training resource and achievement of desired project impacts

TIMETABLE

Date of training: **Before March 31st**

Date of feedback to yannick (assessment template) : **Before April 7th**

Date of yannick's return to the writers : **April 14th**

Deadline of rewriting and sending to yannick: **April 15th**

Yannick to Claudio: **April 16th**

Claudio & Guillermo to Yannick for printing : **April 30th**

Wrong
Problem with computer

What are the projectX the partners have tested

What are the projectX the partners have tested			Testing School
 P0 Xabec	PX001	BALANCING A DIRECT DRIVE FAN	 P0 Xabec
	PX002	SPLIT SYSTEM: PIPE REPAIR, F-GAS CHARGING AND TESTING	 P4 SCCB
	PX003	MAKING A PORTABLE WORKBENCH	 P4 SCCB
 P1 Savo	PX004	REPLACING BEARINGS IN ELECTRIC MOTORS	 P6 Newton
	PX005	PRODUCT MANUFACTURING CNC-ASSISTED LEARNING	 P1 Savo
	PX006	PUMP AND ELECTRIC MOTOR ALIGNMENT	 P1 Savo
 P2 Pitesti	PX007	Checking the performance and Load characteristics of an induction machine	 P2 Pitesti
	PX008	Starting of the induction machine	 P2 Pitesti
	PX009	Implementation of digital frequency dividers	 P6 Newton
 P3 Valdorio	PX010	Resistance Code and Ohm's law	 P5 Meram
	PX011	Solder Electronic Components	 P5 Meram
	PX012	Signal Measures on CATV and IPTV	 P3 Valdorio
 P4 SCCB	PX13	Apply Scientific Principles to Practical Vapour Compression Systems	 P0 Xabec
	PX014	Handling Fluorinated gases and ozone-depleting substances (category 1 personnel)	 P0 Xabec
	PX015	Electrical Installation 2365 L2 (Unit 204) Installation of Wiring Systems and Enclosures	 P4 SCCB
 P5 Meram	PX016	CCTV SECURITY CAMERA SYSTEM	 P5 Meram
	PX017	BASIC LOGIC GATES	 P3 Valdorio
	PX018	INSTALLING HOME SATALLITE SYSTEM	 P3 Valdorio
 P6 Newton	PX019	INDUSTRY RISK ANALYSIS	 P1 Savo
	PX020	ELECTRICAL POWER ANALYSIS	 P2 Pitesti
	PX021	INDUSTRIAL ELECTRICAL INSTALLATION ELECTROTECHNIC WIRING HARNESS FOR A MOTOR STARTER	 P6 Newton

ProjectX - INTERNAL ASSESSMENT

Title of the ProjectX:

**School writing:
School testing**

A. PRESENTATION

	Opinion (thick)	Proposal / Comment
Student		
		
Teacher		
		

B. THEORETICAL KNOWLEDGE

	OBJECTIVE	REFERENCE
Student		
		
Teacher		
		

ACTIVITIES

	ACTIVITY	REFERENCE
Student		
		
Teacher		
		

ProjectX - INTERNAL ASSESSMENT

C. PRACTICE – PRATICAL DETAILS

Brief description of the practice

	Opinion (thick)	Proposal / Comment
Student		
		
Teacher		
		

Practical activities

STEP 1	Opinion (thick)	Proposal / Comment
Student		
		
Teacher		
		

STEP 2	Opinion (thick)	Proposal / Comment
Student		
		
Teacher		
		



ProjectX - INTERNAL ASSESSMENT

STEP 3	Opinion (thick)	Proposal / Comment
Student		
		
Teacher		
		

General commentary

Student	
Teacher	



Commentaries about testing activities

 PO Xabec	<u>PX001</u>  Student: It was very interesting to carry out this project because you really learn to balance an industrial fan. Furthermore, it is a very important task of maintenance in many industries	<u>PX013</u>  Student : We learnt a complex matter in an easy way. The support of the teacher was good to perform the task. The written materials were a bit confusing. The PowerPoint presentations were good and clear. Performing the task worth. Teacher: the addition of some simple extra annexes can improve the ProjectX. Also some formal changes in order to follow the standard of the templates.	<u>PX014</u>  Student: Very important skills for our job Teacher: Same that for PX013. The addition of some simple extra annexes can improve the PrprojectX. Also some formal changes in order to follow the standard of the templates.
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**P1
Savo**

PX005



Student:

English language caused challenges for me and I needed help with translation. I would rather be a worker than a theorist, therefore I did not like those theoretical parts.

The project was versatile and clear and I liked the idea of the final product. Without help of my teacher I couldn't manage with the cnc-machines. Now I am a little bit better with them now.

PX006



Student:

Difficulties to get start. The project itself was quite logical

PX019



Student:

The guide was logical and easily understood - annexes with a numbers made it easier to follow.

Needed google-translator with some words / sentences.

There was quite a lot of videos and other material.....in the final moments was difficult to concentrate properly.
Maybe because of this we felt the videos a bit childish.



P2 Pitesti

PX007



Student :

this practice teaches students the components of an induction machine and also how to

draw the mechanical characteristic.

Teacher:

it is important for students to be able to identify the components of an induction machine

and to be able to measure, draw and interpret the mechanical characteristic of an induction

machine.

The project is correctly structured containing valuable indications for each step that has to be done.

The information in the Annexes is complete.

PX008



Student :

With this project the student has to be capable to make the required electrical connections

between different electric components according to an electric design.

Teacher:

it is very important for students to be able to read an electrical wiring and identify the

components of this, such as to start in star-delta connection an induction machine. The student has

to be capable of connecting a PLC in a schematic and develop a simple program.

The project is correctly structured containing valuable indications for each step that has to be done.

The information in the Annexes is complete.

PX020



Student:

We were impressed by attending project that was tested.

We learned new things about the electricity, electrical power and on analysis of certain measuring instruments used in practice (PowerQ Plus MI 2392 and the Fluke 1625 Earth / Ground Tester).

We have acquired new abilities and skills.

The project is complex and interesting.

Teacher conclusion:

The project is very good.

The project test has a logical structure, a gradual introduction of elements of electrical components that takes into account its compound, protection of Compounds equipment, but also personnel protection serves. It highlights the parameters required to estimate the main characteristics of a grid.

The project can be approached by students from vocational school. The students at UPIT encountered in their curriculum many similarities with the projects' content.

By completing the project they will be able to achieve a preventive or corrective maintenance for increased energy efficiency, increased technical and economic impact.

The project is very complex, excellent and facilitates the exchange of ERASMUS mobility for students and teachers. Congratulation!

See catalin test & article from luminita

 P3 Valdorio	<u>PX012</u>  See report	<u>PX017</u>  See report	<u>PX018</u>  Student: During this training unit that checked for proper installation of a satellite for reception system is very important that the preparation work before installation on site. The material provided was sufficient
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**P4
SCCB**

PX015



Student

I found this test a little challenging but it was achievable because I had knowledge on different type of wiring systems prior to starting this activity.

If someone who didn't have knowledge on UK wiring system, they would struggle because there is a lot more theory involved.

PX002



Student

I think it's very well done, although missing some steps.

It is every organized. It has lots of information. You learn good practice. It

is a good way to learn.

It is very detailed piece by piece.

Motivates me to know that in the end I'll know how to repair a split

smoothly and learn special vocabulary related with cold and heat.

Motivates me, minimize the theory.

PX003



Student

I found this rather challenging but enjoyable acquiring and fine tuning skills

for example in welding. I was able to utilise my mathematical skills but at

times I struggled and had to seek support.

Teacher

The exercise was useful to develop students' skills, it built elements of

existing but provided knowledge.

Opportunities for new learning and skills development. As a first time

practical exercise the student needed considerable supervision to ensure

health & safety compliance.

 P5 Meram	<u>PX016</u>  This project is important for security systems department in electronics. We tried to explain this project in the basic form to do understandable for students. Maybe, the annexes can be prepared for all steps in detail. However, the project is explained with additional knowledge and pictures together in a different presentation.	<u>PX010</u>  The steps of PX010 are explanatory for students and teachers. This presentation and its annexes are really well prepared for electronics department.	<u>PX011</u>  The Title of Projectx011 is different in Level 1 and Level2 . I think that " Solder Electronic Components" is more suitable as the title of project. However, ProjectX011 is an important subject for electronics department. This presentation is a good study.
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**P6
Newton**

PX021



Student:

This projectX is very pleasant to perform ,especially the practical activities.

The theoretical knowledge is very important for that kind of field .

I'm very impatient to perform that kind of projectX abroad , and valid some part of my curricula for my diploma.

PX004



Student:

The theoritical part was a little bit confusing , I don't know if I should read the total pdf documents or some parts. Because I had some capabilities in that field , I focused on some part only.

The documents from the manufacturer are very precise and interesting with good quality of information.

The practical part was done following the guide and the task are very synthetic.

I enjoy a lot doing this project in English . My teacher told me that I can assess this projectX in Finland next year if I'll do my internship over there. The work should be done on bigger motors with induction heater tools and cooling spray .

PX009



Student & teacher

Problem with annexes :

Annexe 5 IC implementation RAR is name annexe 2 after unzip

Annexe6 FGPA implementation RAR is name annexe 4 after unzip

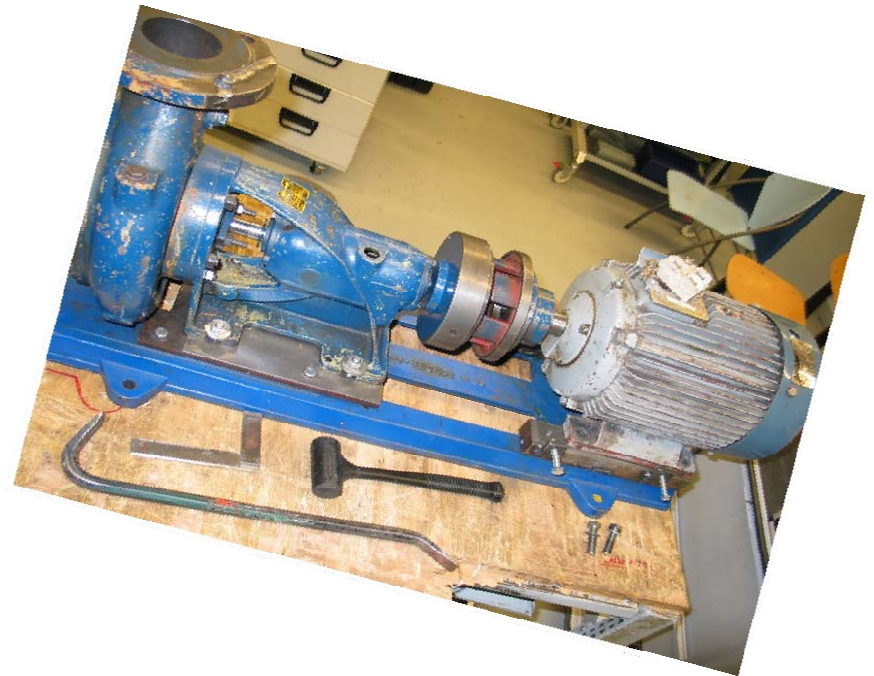
Maybe that projectX could be separate in 2 projectX : one for "basic" electronic with simulation mode and testing the real Ic's on breadboard with classic materials (power supply , signal generator, oscilloscope etc ...) and one for FGPA

I'm a little bit afraid with all the resources on the internet. What happen if no connection or if the references disappear ?



CENTRO DE FORMACIÓN PROFESIONAL

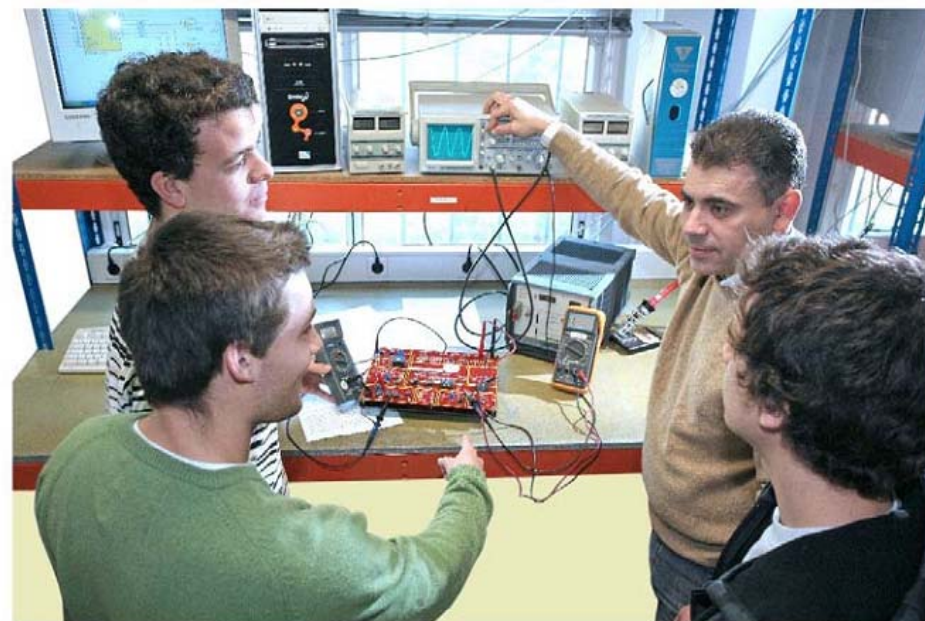






See report

See Article









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