



Erasmus+



Better Electro-World

CONFIGURATION OF PABEX E.VOLUTION



PHONE GUYS

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THE PROJECT SUMMARY

E World (Better Electro World) is a project which is set up on the idea that VET (Vocational Education and Training) can be learned best if a student acquires vocational qualifications by the good samples of practices on peer learning and project based implementations. The main reason for this project is to lessen the educational barriers of VET which hinder a student to be successful and proactive. The idea of this project on peer learning with the good examples of project based learning comes after finding that we have a lot of common needs, problems and reasons for participating in a European partnership.

In the implementation of this project, "Learn & Do" step is improved and reinforced by taking the next step "Learn & Teach". We aim to train trainees/workers for reaching good quality with an international knowledge, vocational skills and individual competence base, relevant to working life. That will increase their employability not only in their national business but also in the EU labor market. In addition, this will set up the frame for their lifelong learning.



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IP phone

IP Phone is connected to local network, so you can call from one phone to other by internal number (etc. 401).



How to Install IP phone

This project will focus on the installation of a simple, IP phone connection in local area network with 2 phones, UTP cables and central station.

Before we install the project we should learn about IP protocol and learn how to connect wires.

Then, we install the materials.

After installing the circuit, try to call from phone to phone.

Wiring Materials

A- IP phone :

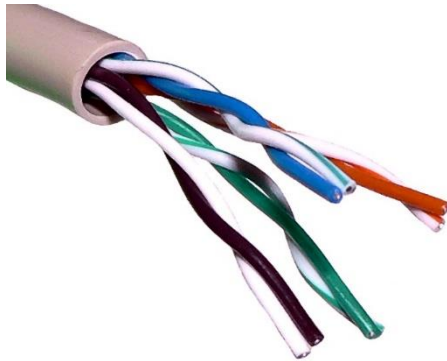
A VoIP phone or IP phone uses voice over IP technologies for placing and transmitting telephone calls over an IP network, such as the Internet, instead of the traditional public switched telephone network (PSTN).

Digital IP-based telephone service uses control protocols such as the Session Initiation Protocol (SIP), Skinny Client Control Protocol (SCCP) or various other proprietary protocols.



B- UTP wire:

UTP (unshielded twisted pair) is used in many internet and phone systems. For indoor telephone applications, UTP is often grouped into sets of 25 pairs according to a standard 25-pair color code originally developed by AT&T Corporation. A typical subset of these colors (white/blue, blue/white, white/orange, orange/white) shows up in most UTP cables. The cables are typically made with copper wires measured at 22 or 24 American Wire Gauge (AWG),[4] with the colored insulation typically made from an insulator such as polyethylene or FEP and the total package covered in a polyethylene jacket.



Wiring Materials

C- central unit (epabx system):

These systems support VoIP and considering the fact that recent open source technology combined with affordable hardware are significantly reducing the costs of owning an EPABX platform, may prove highly cost effective for enterprises of every kind. Depending upon the configuration of the EPABX system, features can vary but essentially this technology comes with the potential for a wide array of customizable features which can be added or removed as needed. Examples of possible features are call waiting, conference call, custom greetings, busy override, night service, shared message boxes, voice mail/messaging, all line merging, auto call answer, conference calling, call metering, and more.



Step 1- Connect UTP wires

First of all we had to connect phones to the central unit. We did it with UTP cable from each phone to central unit.

**UTP wire
connecti
on:**



Step 2 – we get the codes

The codes entered on the phones are ;

- a. 401
- b. 402
- c. 403
- d. 404
- e. 405



Step 3 – We Talked

A : Hello

B : Hi

A : How Are You ?

B : I'm fine thanks and
you ?

A: Thanks.

B: What are you doing ?

A : I study.

B : OK , see you later.

A : See you...



Rok LEŠNIK

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Hi, I am Rok.

I am electric student in Celje. I am interested in energetic, sound and light technic and web projects.

I'm also a soundman and lightman on events.

Better Electro-World is my second Erasmus Project.

Firstly I joined Eupreneurs. It was about entrepreneurship.

The reason for joining this project is;

To teach something new, to improve English, see different cultures and to meet new friends.

Diogo SOARES

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Hi, I am Diogo Soares

I am 19 years old I am from Portugal.
In my school I study Electronics,
Automation and computers, and I am in 11th grade
student.

My interests are sports, books, i watch anime and I
play video games.

This is my first Erasmus+ experience.

The reason for joining this project is;

Is to learn new knowledges and see new cultures



Soufian HAMZA EL FOUTATI

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Hello, my name is soufian Hamza el foutati.

I'm a middle grade student.

my father is a cook my mother is a housewife. my goal is to finish my studies

my hobbies is football and being with friends



Tony RICHARD

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Hello my name is Tony Richard.

I am 16 years old.

I am from France.

I like playing video games and watching manga.

I live in small village in Normande. In the north of France.

It's my first experience for Erasmus+.

I join Erasmus + because discovery of different languages.

It's a experience to live.



Batuhan SAĞLAMBAŞ

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Hello , My name is Beytullah YILMAZ.

Samandıra Vocational and Technical Anatolian High School , Electrical and Electronics Department , 11th grade student.



My father's occupation textile and my mother's occupation a housewife.

I live in İstanbul / Sancaktepe , Turkey.

My hometown is Ordu / Aybastı.

My hobbies are swimming and making electrical circuit. I chose this profession myself in high school and I'm glade I chose it. I participated in this projec twhich started in our school because I was very happy to learn both about electricity and to teach it.I want to insistt hate very one participate ; Because I want everyone to help those who do not know.

