InMobVET

Social Inclusion through Mobility
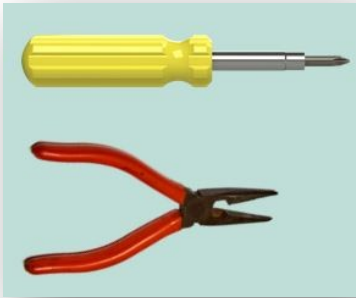in Vocational Education and Training

SCRIPT

SECTOR: **ELECTRONICS AND ELECTRICAL ENGINEERING IN FRANCE**

TOPIC: **COMPUTER MAINTENANCE TOOLS AND EQUIPMENT**
- GET TO KNOW THE ESSENTIAL TOOLS
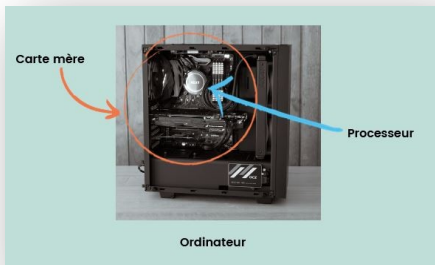**AND TERMS YOU WILL NEED TO USE**

Welcome to a computer and network maintenance service.
To start in our computer and network maintenance department, we will need to prepare the:

Phillips screwdriver - tournevis cruciforme
nose pliers - pince à bec
anti-static wrist strap - bracelet anti-statique
LAN tester - testeur LAN

From the wiring diagram, read the instructions to determine the choice of equipment needed, the number of usable ports and the desired speed. ——
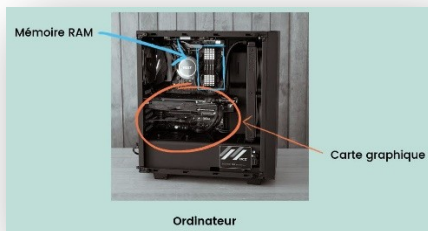
Then we will discover the elements to be implanted in the tower of the PC - Ordinateur.
Once the motherboard carte mère that supports the overall operation of the computer and the processor processeur which interprets and executes the instructions it receives, have been installed inside the tower, the various internal products will have to be installed.
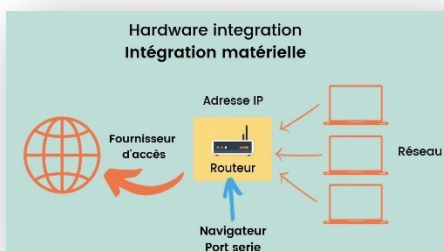
Carte mère
Processeur
Ordinateur

The reading peripherals on the front panel: DVD reader lecteur de dvd which transmits the reading of the discs it is offered, the mass storage (SSD or HDD), which stores the recorded data
The power supply, L'alimentation which will supply the electricity needed to operate the appliance.

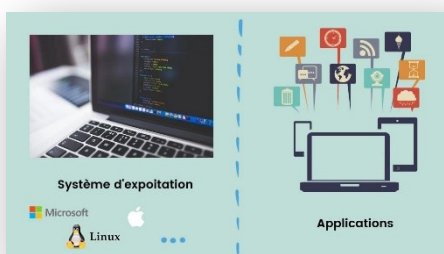L'alimentation
Lecteur de DVD
Ordinateur

Then on the motherboard the RAM memory mémoire RAM which stores snapshot data submitted to the processor , the graphics card, carte graphique which allows the display graphics on a PC screen.
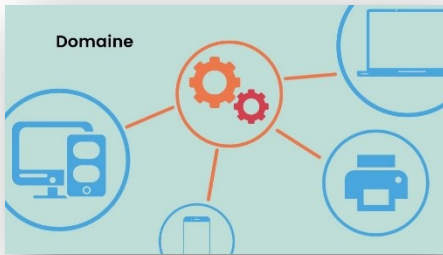

To start our computer and connect it to the internet, it is possible that we will have to install the connections!
RJ45 female with its categories - RJ45 femelles avec ses catégories
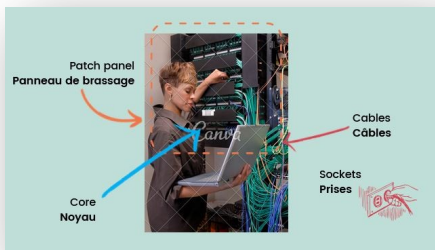Each part will have to be installed and validated.

We will then have to study the hardware integration part - intégration matérielle.
To be able to connect to the Internet, we will have to set up our box routeur which has been entrusted to us by our access provider fournisseur d'accès.
This box makes the link between our local network réseau and the internet by what is called an IP address adresse IP.
We can configure a router in different ways by the serial port, port serie, Telnet or by a browser navigateur.

Then comes the software part. This is the phase of correctly setting up the BIOS or UEFI of each PC in order to recognise the different components of the computer.
We can then install our operating system système d'expoitation which plays the role of intermediary between the user and their programs on the one hand and the hardware of the computer on the other hand,
There are different operating systems: windows, linux, macos to mention only the most known.
Once our operating system and the drivers are installed, we will have to install applications applications also called software, depending on the user's needs:
Office software such as office, drawing software such as photoshop and many others.

If you are in a company, you will also have to integrate the workstations into what is called a domain domaine.
This domain is managed by a domain controller. These controllers are Windows servers with a directory base called active directory which allows centralised management of the users and computers.

This work is carried out during the physical installation of the network.
Once the cables câbles have been pulled from the sockets prises to the core noyau of the patch panel panneau de brassage, tests must be carried out to validate the quality of the link.

To do this, we use cable testers and, if necessary, on large installations, cable certifiers certificateurs de câbles which will allow us to define the speed of the link.

Now for the final validations of the deployed software solutions.
It will then be necessary to connect the computers with their network administration administration réseau, to deploy the management of the rights of each user droits des utilisateurs. This work will also allow the deployment of shared software logiciels partagés.

Finally, particular attention will be paid to the security of the network sécurité du réseau.

LIST OF VOCABULARY

FRENCH	*YOUR LANGUAGE*
tournevis cruciforme	
pince à bec	
bracelet anti-statique	
testeur LAN	
Ordinateur	
carte mère	
processeur	
lecteur de dvd	
L'alimentation	
mémoire RAM	
carte graphique	
RJ45 femelles avec ses catégories	
intégration matérielle	
routeur	
fournisseur d'accès	
réseau	
adresse IP	
port serie	
navigateur	
système d'expoitation	
applications	
domaine	
câbles	
prises	
noyau	
panneau de brassage	
certificateurs de câbles	
administration réseau	
droits des utilisateurs	
logiciels partagés	
sécurité du réseau	