

## SCRIPT

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

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

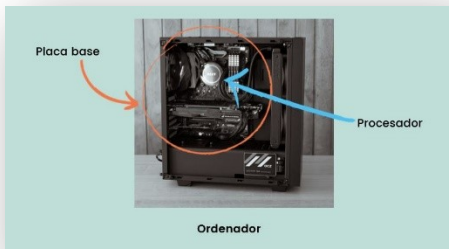


Welcome to a computer and network maintenance service. To start in our computer and network maintenance department, we will need to prepare the:

**Phillips screwdriver** – Destornillador de estrella  
**nose pliers** – Pinzas de pico  
**anti-static wrist strap** – Correa de mano antiestática  
**LAN tester** – Probador de redes de área local (LAN)

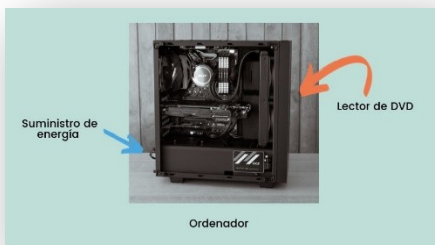


From the wiring diagram, read the instructions to determine the choice of equipment needed, the number of usable ports and the desired speed. —



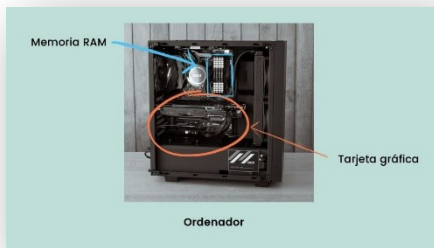
Then we will discover the elements to be implanted in the tower of the PC - Ordenador.

Once the motherboard **Placa base** that supports the overall operation of the computer and the processor **Procesador** which interprets and executes the instructions it receives, have been installed inside the tower, the various internal products will have to be installed.



The reading peripherals on the front panel: DVD reader **Lector 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, **Suministro de energía** which will supply the electricity needed to operate the appliance.

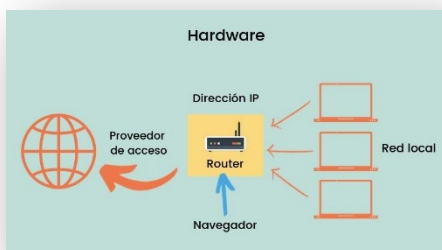
Then on the motherboard the RAM memory **Memoria RAM**



which stores snapshot data submitted to the processor , the graphics card, [Tarjeta gráfica](#) which allows the display graphics on a PC screen.



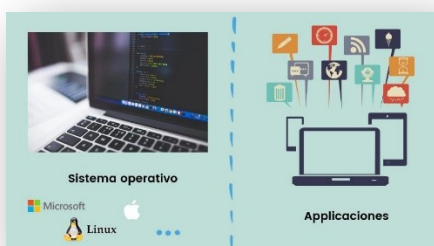
To start our computer and connect it to the internet, it is possible that we will have to install the connections! RJ45 female with its categories - [RJ45 hembra](#). Each part will have to be installed and validated.



We will then have to study the hardware integration part - [Hardware](#).

To be able to connect to the Internet, we will have to set up our box [Router](#) which has been entrusted to us by our access provider [Proveedor de acceso](#).

This box makes the link between our local network [Red local](#) and the internet by what is called an IP address [Dirección IP](#). We can configure a router in different ways by the serial port, Telnet or by a browser [Navegador](#).



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 [Sistema operativo](#) 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,

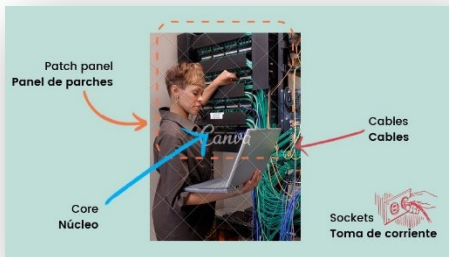
There are different operating systems: windows, linux, macos to mention only the most known.

Once our operating system and the drivers are installed, we will have to install applications [Aplicaciones](#) also called software, depending on the user's needs:

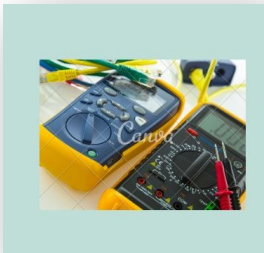
Office software such as office, drawing software such as photoshop and many others.



If you are in a company, you will also have to integrate the workstations into what is called a domain **Dominio**. 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 **Cables** have been pulled from the sockets **Toma de corriente** to the core **Núcleo** of the patch panel **Panel de parches**, 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 **Certificador de cables** 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 **Administración de la red**, to deploy the management of the rights of each user **Derechos del usuario**. This work will also allow the deployment of shared software **Software compartido**.

## LIST OF VOCABULARY

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| <b>SPANISH</b>                               | <b>YOUR LANGUAGE</b> |
|--|----------------------|
| <i>Destornillador de estrella</i>            |                      |
| <i>Pinzas de pico</i>                        |                      |
| <i>Correa de mano antiestática</i>           |                      |
| <i>Probador de redes de área local (LAN)</i> |                      |
| <i>Ordenador</i>                             |                      |
| <i>Placa base</i>                            |                      |
| <i>Procesador</i>                            |                      |
| <i>Lector de DVD</i>                         |                      |
| <i>Suministro de energía</i>                 |                      |
| <i>Memoria RAM</i>                           |                      |
| <i>Tarjeta gráfica</i>                       |                      |
| <i>RJ45 hembra</i>                           |                      |
| <i>Hardware</i>                              |                      |
| <i>Router</i>                                |                      |
| <i>Proveedor de acceso</i>                   |                      |
| <i>Red local</i>                             |                      |
| <i>Dirección IP</i>                          |                      |
| <i>Navegador</i>                             |                      |
| <i>Sistema operativo</i>                     |                      |
| <i>Aplicaciones</i>                          |                      |
| <i>Dominio</i>                               |                      |
| <i>Cables</i>                                |                      |
| <i>Toma de corriente</i>                     |                      |
| <i>Núcleo</i>                                |                      |
| <i>Panel de parches</i>                      |                      |
| <i>Certificador de cables</i>                |                      |
| <i>Administración de la red</i>              |                      |
| <i>Derechos del usuario</i>                  |                      |
| <i>Software compartido</i>                   |                      |