

SCRIPT

SECTOR: ELECTRONICS AND ELECTRICAL ENGINEERING
IN SPAIN

TOPIC: LEARN WHAT BEHAVIOUR IS EXPECTED OF YOU
IN AN ELECTRICAL WORKSHOP INCLUDING THE MOST
IMPORTANT SECURITY MEASURES.



Welcome to an electrical workshop **taller eléctrico**
You can work in a low voltage **Baja tensión** electrical
workshop that tests electrical appliances, lighting, sockets,
plugs and accessories or you can work in a high voltage **Alta
tensión** electrical workshop that meets the needs of Greek
industry quality control of electrical and electronic materials,
machines and devices.

What do you need to know about your safety?



In an electrical workshop you will receive instructions about
the equipment **Equipamiento**, the power tools **Herramientas
eléctricas** and the tasks **Tareas** you have to accomplish by the
electrical engineer **Ingeniero eléctrico**. He will give guidance
how to protect yourself and the laboratory from a possible
accident.



During your work as an electrician **Electricista** you must follow
individual protection measures which include:

- head protection measures **Protecciones para la cabeza**
- body protection measures **Protecciones para el cuerpo**



You must wear a safety helmet **Casco de seguridad** to protect
yourself if you fall from a ladder or if you work in an area with
falling objects.



Wear safety goggles [Gafas de protección](#) to protect yourself from sparks from metal wires or small airborne objects.



To protect yourself from electric shock [Descarga eléctrica](#), which can cause blindness, wear a face mask [Máscara facial](#).



To protect yourself from electric shock [Descarga eléctrica](#) it is necessary to wear leather or synthetic protection gloves [Guantes de protección](#) with resistance to electricity. Caution!



Wear a fireproof jumpsuit [Mono ignífugo](#) to protect against fire [Fuego](#) caused by an electric arc overheating the installation elements due to a short circuit [Cortocircuito](#) or overload as well as high operating temperatures of certain devices. Also a one-piece fireproof uniform will protect you in the case of an explosion in areas with flammable gases or dusts.



It is necessary for the technicians dealing with electrical and electronic devices during their work to wear safety shoes [Botas de protección](#) of plastic or other insulating material like rubber which increases the resistance of the body and significantly reduces the leakage of the current to the ground in case of electric shock [Descarga eléctrica](#).



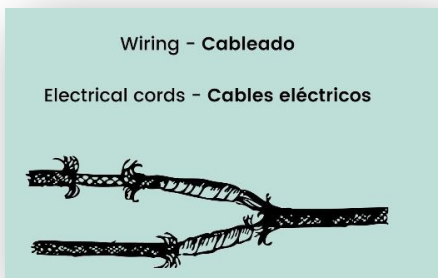
Wear protective coverings [Cubiertas de protección](#) such as protective elbow coverings and protective wrist coverings when you use hand tools [Herramientas manuales](#) because they require force or rotation and can cause tendonitis in the hands, wrists or elbows.



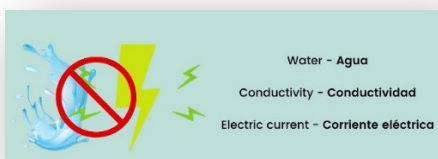
Always use tools **Herramientas** with an insulated handle **Mango aislado** in good condition. This will help you avoid electrical shock **Descarga eléctrica**.



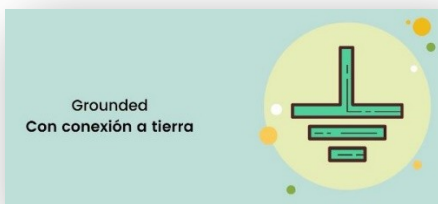
Never use equipment with frayed cords **Cordones deshilachados**, damaged insulation **Aislamiento dañado** or broken plugs **Tapones rotos**.



Inspect wiring **Cableado** of equipment before each use. Replace damaged or frayed electrical cords **Cables eléctricos** immediately.



Avoid water **Agua** when working with electricity. It increases the conductivity **Conductividad** of the electric current **Corriente eléctrica**. Keep all electrical cords away from water. Never touch or try repairing any electrical equipment or circuits with wet hands.



Make sure all metal components of the laboratory such as metal benches, and metal ceilings frames which may receive an electrical voltage are grounded **Con conexión a tierra**. All electrical equipments should be grounded with 3 prong plugs.

Wiring - Cableado
Power source - Fuente de alimentación



Never try repairing powered equipment **Equipo motorizado**. Never change wiring **Cableado** with circuits plugged into the power source **Fuente de alimentación**.

Unplug cords by pulling the plug and not the cord

Desenchufar



Unplug cords by pulling the plug and not the cord **Desenchufar**. Disconnect all electrical equipment when it is not in use.

Highly flammable materials
Materiales altamente inflamables



Don't use or store highly flammable material **Materiales altamente inflamables** near electrical equipment, because some materials can be ignited by sparks from the electrical equipment.



Circuit protection devices - Dispositivos de protección de circuitos
Ground - fault - Fallo en la tierra
Overload - Sobrecarga
Short circuit - Cortocircuito

Know the location of and how to operate the circuit protection devices **Dispositivos de protección de circuitos**. Circuit protection devices are designed to automatically limit or shut off the flow of electricity in the event of a ground fault **Fallo en la tierra**, overload **Sobrecarga** or short circuit **Cortocircuito** in the wiring system.

Fire - Fuego

Extinguishers - Extintores



In case of fire **Fuego** due to electrical causes (e.g. short circuit) do not use water to put it out. Use suitable fire extinguishers **Extintores** which should be available in the area of the laboratory.

LIST OF VOCABULARY

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TOPIC: LEARN WHAT BEHAVIOUR IS EXPECTED OF YOU
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SPANISH	YOUR LANGUAGE
<i>Baja tensión</i>	
<i>Alta tensión</i>	
<i>Equipamiento</i>	
<i>Herramientas eléctricas</i>	
<i>Tareas</i>	
<i>Ingeniero eléctrico</i>	
<i>Electricista</i>	
<i>Protecciones para la cabeza</i>	
<i>Protecciones para el cuerpo</i>	
<i>Casco de seguridad</i>	
<i>Gafas de protección</i>	
<i>Descarga eléctrica</i>	
<i>Máscara facial</i>	
<i>Descarga eléctrica</i>	
<i>Guantes de protección</i>	
<i>Mono ignífugo</i>	
<i>Fuego</i>	
<i>Cortocircuito</i>	
<i>Botas de protección</i>	
<i>Cubiertas de protección</i>	
<i>Herramientas manuales</i>	
<i>Herramientas</i>	
<i>Mango aislado</i>	
<i>Cordones deshilachados</i>	
<i>Aislamiento dañado</i>	
<i>Tapones rotos</i>	
<i>Cableado</i>	
<i>Cables eléctricos</i>	
<i>Agua</i>	
<i>Conductividad</i>	
<i>Corriente eléctrica</i>	

<i>Con conexión a tierra</i>	
<i>Equipo motorizado</i>	
<i>Cableado</i>	
<i>Fuente de alimentación</i>	
<i>Desenchufar</i>	
<i>Materiales altamente inflamables</i>	
<i>Dispositivos de protección de circuitos</i>	
<i>Fallo en la tierra</i>	
<i>Sobrecarga</i>	
<i>Cortocircuito</i>	
<i>Fuego</i>	
<i>Extintores</i>	