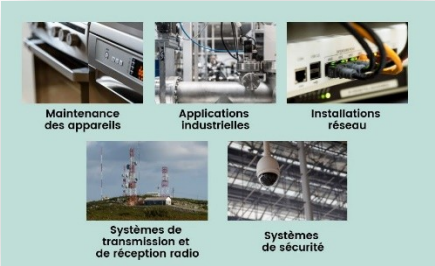
InMobVET
Social Inclusion through Mobility in Vocational Education and Training

SCRIPT

SECTOR: ELECTRONICS AND ELECTRICAL ENGINEERING IN FRANCE

TOPIC: GET TO KNOW THE GENERAL TOOLS AND EQUIPMENT IN ELECTRONICS AND THE NECESSARY VOCABULARY IN FRENCH



In an electronic lab or as an electronic technician you will have to work with electronics and their applications in appliances maintenance maintenance des appareils, industrial applications applications industrielles and networks' installation installations réseau, installation of radio transmitting and receiving systems Installation de systèmes de transmission et de réception radio and the installation of security systems l'installation de systèmes de sécurité.

When you enter an electronics lab you must be sure that you have taken the appropriate safety measures. You must wear antistatic gloves gants antistatiques or antistatic wrist bands bracelets antistatiques and check that the room is properly aerated, lightened and climatised.

Then you can start working on your project. The appropriate equipment and the tools outils appropriés should be easily accessible on, below, or over the laboratory bench paillasse du laboratoire. The bench should be clean, keeping everything on it in proper and functional condition and the most important, off current if they are not in use.

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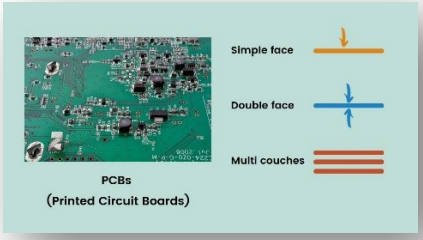
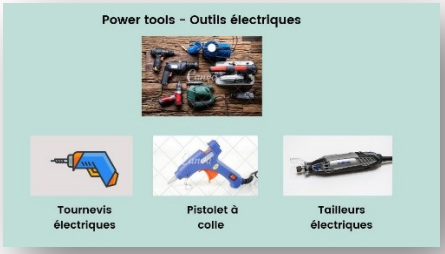
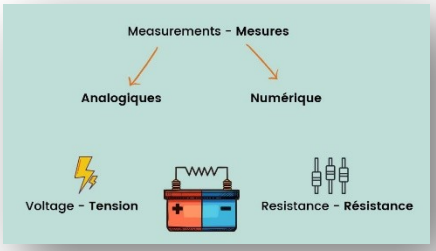


The most common electronic component you have to work with as an electronic technician is the PCBs, the Printed Circuit Boards. They support and connect electronic components using conductive tracks. PCBs could be single-sided simple face, double-sided double face or multi-layer multi couches.

The most common tools for an electronics technician are the hand tools outils manuels. These tools are wire cutters pinces coupantes, wire strippers pinces à dénuder, normal pliers pince normale and long nose pliers pince brusselle, plug crimping pliers pince à sertir, tweezers pinces à bec, and screwdrivers for electronics tournevis pour l'électronique.

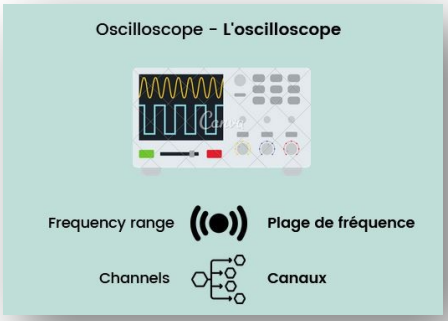


As the duties you have to carry out will become more advanced you will have to use power tools outils électriques such as drills, electric screwdrivers tournevis électriques, glue guns pistolet à colle, electric trimmers tailleurs électriques etc.



As an electronic technician, you will have to take measurements mesures. Either analog analogiques or digital numériques. Multimeters will be used for measurements of voltage tension, resistance résistance and current. The multimeter can be either portable or benchtop. Other common measuring devices are clamp-on meters, battery analysers, voltage testers and insulation testers.

Other instruments you will use are Function Generators générateurs de fonctions and soldering and desoldering stations stations de soudage et de dessoudage.



The oscilloscope l'oscilloscope is a state of the art instrument for an electronics laboratory. You will either use an analogue or a digital one. It is important to know which frequency range Plage de fréquence you want to work with. How many channels Canaux you need for measuring and the accessoiries that will be useful to carry out the tasks.

There are many electronics components and consumables and it is worth keeping them stored properly in the lab to be easily searchable and accessible. The most common are:
solder wire fil de brasure
fuse fusible
cable câble
fan ventilateur
speaker haut-parleur
microphone microphone
camera caméra
batteries batteries
resistor résistances
capacitor condensateur
led display affichage à DEL
led lamp lampe à LED
switch switch
socket prise de courant
relay relais
Integrated Circuit (IC) Circuits intégrés

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LIST OF VOCABULARY

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FRENCH	*YOUR LANGUAGE*
maintenance des appareils	
applications industrielles	
installations réseau	
Installation de systèmes de transmission et de réception radio	
l'installation de systèmes de sécurité	
gants antistatiques	
bracelets antistatiques	
outils appropriés	
paillasse du laboratoire	
simple face	
double face	
multi couches	
outils manuels	
pinces coupantes	
pinces à dénuder	
pince normale	
pince brusselle	
pince à sertir	
pinces à bec	
tournevis pour l'électronique	
outils électriques	
tournevis électriques	
pistolet à colle	
tailleurs électriques	
mesures	
analogiques	
numériques	
tension	
résistance	

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générateurs de fonctions	
stations de soudage et de dessoudage	
l'oscilloscope	
Plage de fréquence	
Canaux	
fil de brasure	
fusible	
câble	
ventilateur	
haut-parleur	
microphone	
caméra	
batteries	
résistances	
condensateur	
affichage à DEL	
lampe à LED	
switch	
prise de courant	
relais	
Circuits intégrés	