



Electronic Engineering Technician

Description

Electronic engineering technicians carry out a wide range of activities. They perform the tasks relating to design, production and construction, installation control, and maintenance of electrical/technical and electrical/mechanical products and components (such as different audio appliances, TV sets, radars, medical appliances, surveillance equipment, etc.). In order to ensure that ready-made appliances have controls, electronic engineering technicians manufacture and assemble all switches and keys and connect them with specific components. In order to identify the exact location of a defect on the appliance, they use different measuring instruments and in-circuit tests to systematically measure each individual part: charging unit, fuse, switch, etc. They are also in charge of creating measuring protocols and reports on the tests and measuring results, as well as generating the technical documentation and schemes for the development of different electrical/technical devices, appliances, and systems, at the preparatory stage of their operation. Thanks to their extensive specialist knowledge and electronics, these technicians can carry out different tasks relating to electrical industry, medicine, telecommunication, and other areas which involve electronics. Those who specialise and focus on vehicle electronics carry out all the tasks meant to ensure good working order of electrical fittings and devices on the vehicle; they also measure and diagnose engine electronic systems, as well as pneumatic, hydraulic and safety systems.

They use, in their work, many different devices and appliances which they need to handle with care and precision (soldering irons, pliers, hammers, smoothing tools, voltage measuring instruments, resistance measuring instruments, etc.). In line with the development of technology, specialised computer programmes are also used more and more. It is very important for them to be capable of analytical and spatial thinking, to have good PC skills, and to move with precision and accuracy. If they work in electrical/technical maintenance and repair shops, they also need to have good communication skills and to be willing to help. Cooperation with experts in other fields and teamwork are also important.

Desirable traits/requirements

- Manual dexterity
- Good sight and visual acuity
- Spatial orientation
- Analytical ability
- Responsibility and reliability
- Being organised and flexible
- Communication skills and willingness to help
- Teamwork

Positive aspects:

- Electronic engineering technicians' fields of work are diverse and there is opportunity for the wide application of their practical skills and knowledge. Many different diagnostic devices are used in the course of their work.

Negative aspects:

- Electronic engineering technicians need to be precise. The job is demanding and requires responsibility. Considering the constant improvement of equipment technology, it is necessary to keep on learning and further develop professional skills.

Career path/field of work

In order to be able to do this job, it is necessary to finish a four-year secondary vocational school.

Electronic engineering technicians can work in electrical industry, ICTs, electrical/technical maintenance and repair shops, as well as in motor vehicle maintenance and repair shops.