



# Elektronika / Electronics

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# Strona 1

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## Electronics



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The profession of an electronics is still quite a niche occupation on the labour market. Therefore, there is a high demand for specialists qualified in this field. Uniform standards prevailing in Polish and foreign companies or electronic plants, combined with communicative knowledge of English, including the professional vocabulary, guarantee finding employment not only on European but also global labour markets.

In their work, electronics manage assembling electronic components and circuits on printed circuit boards, assembling electronic components and circuits in devices, as well as installing and maintaining the electronic devices themselves.

Anyone wishing to pursue the profession of an electronics, but also other professions related to electrical and electronic equipment, should be willing to continuously improve their practical skills in regard to, among others, the IPC standards – global standards of electronic equipment production, or increasingly popular ecological electronics.

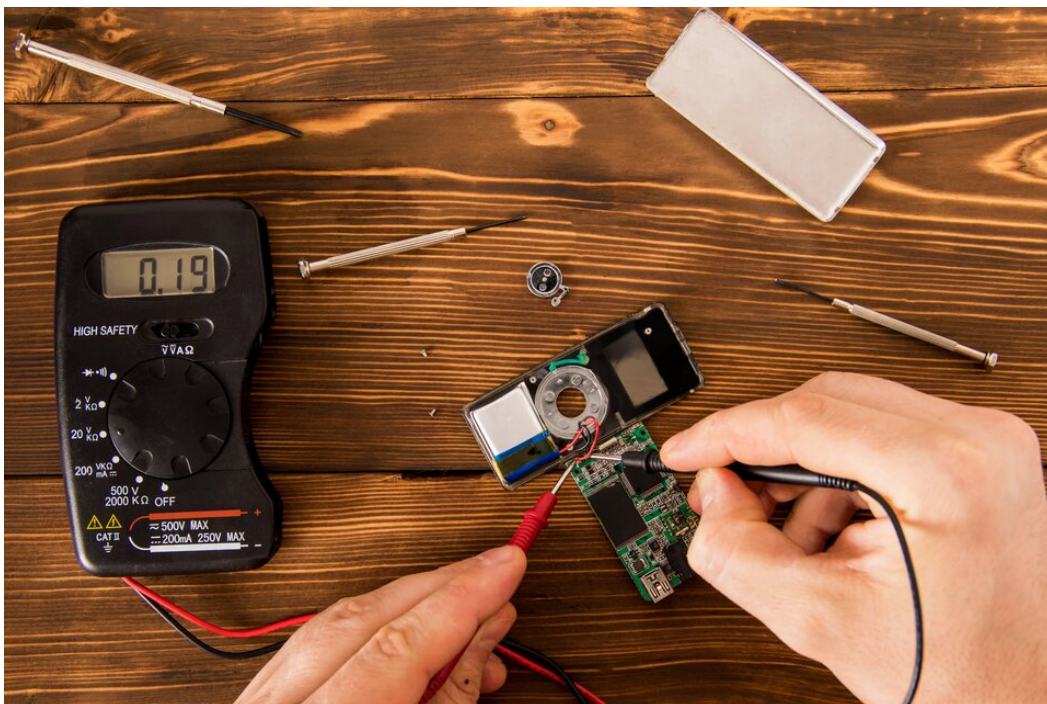
Moreover, candidates for this profession should be characterised by: abstract and logical thinking, interest in technological innovations, patience, perceptiveness and creativity, understanding of technical language and schemes, self-reliance and operability, teamwork skills and passion for soldering.

The competences required for the profession of an electronics can be acquired by taking up basic vocational school courses, where the education is finalised with passing the vocational exam. It's also advisable to participate in qualification vocational programmes or trainings. Further education can be continued in secondary technical school, and after graduation – at universities.

In the course of study, electrical fitters acquire the following skills: knowledge concerning electrical engineering and electronics, background in describing phenomena related to direct and alternating current, drawing up schematic and assembly diagrams, selecting tools and measuring instruments, performing measurements of electrical quantities, presenting the results of those measurements and calculations in the form of tables and diagrams, using computer programs, applying the principles of electrical engineering to calculate and estimate values in electrical circuits and electronic systems, and the knowledge of technical drawing.

Electronics can find employment in factories manufacturing printed circuit boards, commercial establishments or household appliances repair shops. Alternatively, they can start their own businesses.

## Electronics technician



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The development of electrical engineering has significantly improved the quality and comfort of our life. Electronic devices are present in nearly every single aspect of life. An

electronics technician is therefore a profession of high importance since qualified specialists handle installation, assembly, maintenance and repairs of electronic devices. The job of an electronics technician is attractive, innovative and provides young people with great career prospects.

An electronics technician should be interested in electronics, but more importantly they must obtain the proper qualifications that allow them to run technical inspections of specialised electronic devices, as well as their installation, assembly, maintenance and repairs. Such equipment includes mobile phones, satellite antennas, cameras or innovative technological solutions such as smart homes. A specialist is also responsible for servicing electronic and electrically-engineered devices.

In the course of their education, an electronics technician acquires theoretical knowledge and various practical skills such as those related to the operation of oscilloscopes, digital meters, automated measurement systems and modern tools used to mount parts of electronic systems. A technician also becomes familiar with information on analogue and digital electronic systems, TV and radio electronic devices, as well as installing and configuring computer networks and high-tech microprocessor systems.

An electronics technician can seek employment:

- in production plants where electronic devices are operated or manufactured,
- in services where electronic devices are repaired,
- with companies that handle the installation of electronic equipment,
- in research institutions, workshops and offices where technological solutions are designed and developed,
- in stores selling electronic devices.

An electronics technician can work on their own or in a team with the latter giving them opportunity to develop organisational and work management skills.

## **Electronics and medical informatics technician**





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An electronics and health informatics technician is a profession that offers great career prospects. If it weren't for the technicians specialising in this branch of technology, every single facility that provides medical services would cease to exist.

An electronics and health informatics technician handles the testing of medical equipment before it is approved for use, and then installing, monitoring, maintaining and repairing it, if necessary. They are responsible for the proper functioning of equipment such as medical ventilators, defibrillators, artificial kidneys or diagnostic devices. One might say that a health informatics technician is, next to medical staff, responsible for human health and life.

Future electronics and health informatics technicians will find employment with hospital electro-medical staff, in numerous production plants where medical equipment is manufactured and service workshops where it is inspected, maintained or repaired. Normally, the devices are checked and repaired in a specialised service centre. However, sometimes the situation dictates that there is no way of transporting it. In such cases, a technician must do their job in an ambulance or in a hospital ward. This poses a considerable challenge, but also makes the job more exciting and varied.

The profession is highly-specialised and requires some extraordinary qualities. Most of all, an electronics and health informatics technician should possess extensive technical knowledge and computing skills. A candidate for the job must have an analytical mind, a strong sense of responsibility and good manners. They must also be precise and

composed. These features will prove helpful in hospital wards where a technician is often in contact with gravely ill patients.

# Strona 2

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