



# Mechatronics technician

## Description

Mechatronics technicians have a wide range of tasks. They are involved in the development of technical documentation, i.e. conceptual design, installation and adjustment of parameters at mechatronics devices and systems. In that process they use many tools and computer-controlled measuring and diagnostic devices (for inspection of car or vehicle functionality). Based on precise measurement results they identify defects and establish procedure for removal of defects. Mechatronics technicians repair faulty units with special tools and electronic testing equipment. Mechatronics technicians carry out, among their other numerous activities, maintenance of mechatronic equipment, periodic inspections, cleaning and lubrication of parts to ensure proper operation of devices and systems. Communication with customers is vital for their work, as they tell clients what has to be repaired and in what way. A mechatronics technician is required to have a good knowledge of mechatronics technology, to be familiar with the modes of operation of electrical, mechanical and electronic systems and assemblies, as well as to know how to use modern diagnostic equipment. In addition to that, he has to be skilful, precise, composed and team-oriented.

When they specialize for car mechatronics, they may be responsible for car admission, malfunctions diagnostic and repair. They examine, repair and replace car shifters, engines, braking system and other car parts. Regardless of the field of work, they mainly work in a standing position indoors.

## Desirable traits/requirements

- Manual dexterity/ hand skills;
- Agility and physical endurance;
- Good eyesight and precision;
- Spatial orientation;
- Responsibility and reliability;
- Being well-organized and flexible;
- Communication skills;
- Teamwork.

## Positive aspects:

- The fields of work of a mechatronics technician may be diverse providing opportunities for a wide application of practical skills and knowledge. Modern diagnostic equipment is utilized at work.

## Negative aspects:

- Mechatronics technicians must be precise and skilful. They mainly work in standing position. Constant technological advancement and use of high-tech equipment requires continuous learning and improvement.

## Career path/ fields of work

The mechatronics technician's job requires completion of a four-year secondary vocational education.

Mechatronics technicians may work in service workshops, car services, with the company producing mechatronic systems and assemblies or may run their own business.