

Electronics Mechanic



Characteristics

An electronics mechanic is a qualified worker who performs independent works and partial as well as overall organization of work in the production, installation, adjusting, repairs and renovation of electronic products and equipment.

Activities

- Keeping appropriate operating documentation.
- Measuring and assessing parameters of electronic equipment, diagnostics of defects.
- Qualified works in the production of electronic features and assemblies.
Installation and debugging electronic features and assemblies for control rooms and control stations.
- Repairs, maintenance, adjusting, renovation and installation of electronic equipment.
- Assembling, testing, repairing and debugging automation transmitting systems, measuring sets and control systems of electric and Diesel-electric locomotives.

Qualification Requirements

Professional Preparation and Certificates

The most suitable preparation for this position is provided by complete secondary school studies focused on the profession of an electronics mechanic.

It is also possible to have vocational school studies ended with the certificate of apprenticeship in the profession of a mechanic of automation systems and vocational school studies with the certificate of apprenticeship in the profession of a mechanic of alarm systems.

However, there are even more educational paths.

To perform the major part of work activities in this type position the worker usually must be qualified to:

perform independent activities on electronic equipment – professional competences according to 50/1978 Coll. and Decree no. 2002/1995 Coll.

Professional Skills

To perform this position the following practical skills are usually required:

Choosing the work procedure, tools and spare parts to perform repairs and debugging of electronic appliances, equipment and systems and computer technologies, Checking the state and functioning of electronic appliances, equipment and systems and computer technologies, Diagnostics of defects of electronic appliances, equipment and systems and computer technologies, Assembling, installing, connecting and debugging of electronic circuits, appliances, equipment and systems and computer technologies, Repairs of electronic appliances, equipment and systems and computer technologies, etc...

Professional Knowledge

To perform this position the theoretical knowledge in the following fields is usually required: Transmitting, telecommunications, radio communications and other connecting equipment and systems, computer hardware, electrical engineering in general (basic knowledge), electrical materials, conductors, cables and other...

General Competence

The advance level requires these general competences:

personal development, computer skills, flexibility in thinking and acting (adaptability, flexibility, improvisation skills), technical competence

Personal Requirements

The position usually requires **high demands** for depth perception, exactness and accuracy and resistance to sensory stress.

Working on this position includes requirements such as distinguishing colours and colour shades, adaptation to light and dark, range of visual field, distinguishing tones, strength and rhythm, concentration of attention, division of attention, long-term memory, practice-oriented

technical memory (constructional and spatial), practical thinking, self-control, ability to accept responsibilities and make decisions.

Health Requirements

This position **cannot be performed** by those who have one or more of these diseases:
Prognostically serious diseases of limbs disabling fine motor skills and coordination of movements.

Seizure and collapse states.

Serious mental disorders, serious disorders in behaviour.

Prognostically serious eye disorders.

Prognostically serious diseases of limbs disabling fine motor skills