



Polymechanic

Description

Polymechanics are involved in the production and assembling of tools, components of devices, machines, prototypes or products as such. Depending on the company or area of work, their work activities may vary. They are mainly focused on the production of tools, components, semi-finished products or finished products made of metal, such as steel, chromium steel/stainless steel or aluminium. They work manually on turning, milling and grinding machines. In their work they also use computer-controlled machines (CNC), which are programmed based on technical documentation. Therefore, they have to be familiar with the structure of materials they work with, processing methods and project documentation based on which they make and assemble elements. Polymechanics oversee and optimize production processes and if they notice any deviations, they stop machines and make adjustments. Finally, with high-precision measuring and testing instruments they inspect quality of manufactured parts. They strictly observe safety at work measures and use personal protective equipment.

A polymechanic develops software solutions, makes 3-D drawings and drafts technical documentation in consultation with his team and engineers. In addition to technical requirements, he also considers the most cost-effective solutions for production processes. Alongside other specialists he assembles mechanical, pneumatic, hydraulic and electrical parts into a functional entity. The polymechanic also maintains, repairs and replaces damaged parts of machines. The job of a polymechanics is responsible requiring endurance, good spatial orientation, good organizational skills and teamwork. The work is generally performed in large closed or semi-open industrial halls.

Desirable traits/requirements

- Manual dexterity/ hand skills;
- Agility and physical endurance;
- Good eyesight and precision;
- Sense of shape and proportion;
- Spatial orientation;
- Abstract and logical thinking;
- Responsibility and reliability;
- Being well-organized;
- Teamwork.

Positive aspects:

- A polymechanic does a responsible and demanding job. His area of work is broad. He works with high-tech machines. This profile is in continuous demand. Metalworking industry is diverse, more technologically advanced, producing high quality products and structures.

Negative aspects:

- Polymechanics must be precise and careful when handling machines and tools. They generally work in standing position in the noisy environment. Constant technological advancement requires continuous learning and improvement.

Career path/ fields of work

Polymechanic's job requires completion of a secondary vocational education.

Polymechanics work in metalworking industry, in manufacturing, processing and joining of large quantity of different semi-finished products and/or finished products.