



Industrial mechanic

Description

Industrial mechanics work in the mechanical and technical field. They process metal components and assemble them into devices, systems and machines. To do that they read technical documentation and technical drawings. They mainly work with metals such as steel, chromium steel/stainless steel or aluminium, but also with plastics. They apply processing and assembling methods such as drilling, welding, milling and grinding. They produce devices, equipment and parts of machines or entire steel structures. They monitor serial production continuously on computers and computer-controlled machines (CNC). If they identify any deviations, they make corrections on production systems. They also use turning and milling machines to produce precise individual parts. They prepare necessary equipment for work, maintain tools and machines. After the production process, they use measuring instruments for the quality control of produced parts. Working activities include assembling and installing of individual elements into assemblies and mechanical systems. After the assembly is completed, finished machines are inspected and maintained. If necessary, they dismantle them and replace specific mechanical, pneumatic or hydraulic elements.

The industrial mechanic observes occupational safety measures at his workplace and wears personal protective equipment, such as gloves and welding goggles. He may work either individually or in a team with other experts in production and assembly. The work environment is often noisy. A good organization and knowledge of production process are crucial for work completion within the agreed timeline.

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:

- The industrial mechanic's job requires responsibility and precision. The scope of work is extensive and provides opportunities for a wide application of practical skills and knowledge. A high-quality products and structures are manufactured.

Negative aspects:

- Industrial mechanics 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

The industrial mechanic's job requires completion of a three-year secondary vocational education.

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