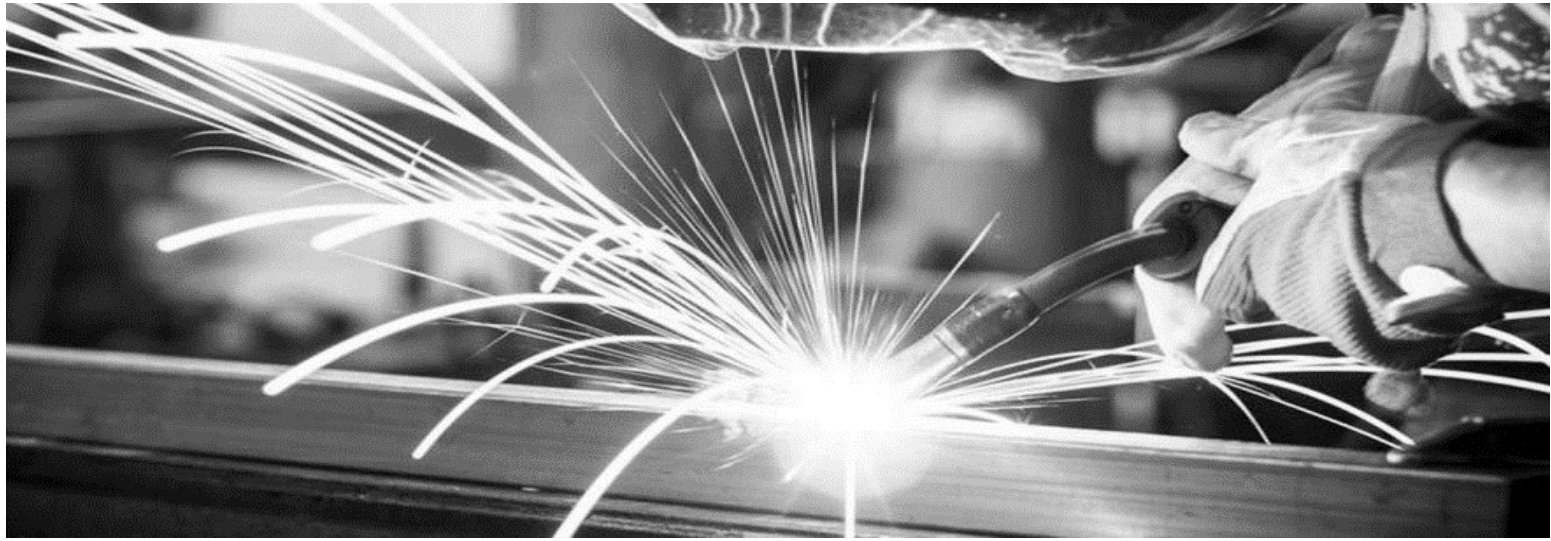


# Branch: Metal locksmith



**Code:** METALW

**Option:** Metalworker

**Level :** CP

**Prerequisites :** Primary school leaving certificate

**Opportunities:**

Professional development. Within a company, the metalworker can, depending on his years of experience, progress to a management position offering him the possibility of leading teams in a workshop or on a site.

**Description**

The metalworker is involved in locksmithing, metal construction, metal joinery (including aluminium), fittings and decoration, and ironwork. He manufactures all the metal elements that adorn buildings (railings, balconies, window frames and verandas, etc.), but also structural metalwork such as bridges, footbridges, pylons, sheds and locksmithing. The metalworker traces the shapes on the metal and cuts it. The parts are then shaped by folding and assembled with bolts, rivets or welding. The metalworker then puts them in place on the site. He uses an increasingly wide range of materials: iron, aluminium but also steel, copper, stainless steel and brass. He adjusts his parts with increasingly modern machines. The metalworker is a worker capable of being a blacksmith, welder, fitter, assembler and metal carpenter.

The core of the training concerns the preparation of the workstation, the manufacture and assembly of the various materials and their installation on the

site. For this purpose, the students learn to read plans and technical files. They also learn the different cutting, machining (milling, drilling, threading, etc.) and shaping (bending, twisting, etc.) processes and how to use the different machines. Finally, they acquire knowledge of materials: ferrous metals (steel, stainless steel), non-ferrous metals (copper, aluminium, brass) and their alloys, synthetic materials (PVC), glass products, composite products (carbon), hardware, sealants, fixing products.

**Quality and competences :**

Metalworking requires a good knowledge of calculation and geometry, a good perception of shapes and volumes, but also solid strength and manual skills.