Branch : Mechanical and Production Engineering

Code : INBOTE
Option : Industrial boilermaking technician
Level : Bac Pro
Prerequisites:
Opportunities:
On completion of their training, graduates can find a job in a craft company or in an industrial company: boiler making, industrial sheet metal work, piping, metal structures.
These companies have many markets: aeronautical and space construction, railway construction, shipbuilding, food industry, chemical industry, building and public works, nuclear and energy industry, paper industry, oil industry.

Description :
Holders of this vocational baccalaureate are specialised in the manufacture of boiler-made assemblies, sheet metal assemblies, industrial piping and metal structure frames. They work mainly in the workshop, but also on site to install, maintain or rehabilitate these elements. The products used are very diverse, both in terms of their nature (ferrous and non-ferrous metals and alloys, plastics, composite materials, etc.) and their shape (flat, profiled, tubular, etc.), size and assembly method. This work requires the use of traditional manually operated machines as well as numerically controlled machines or robots.

assembly, and presentation of the definition data of an element in the form of a sketch or diagram from the overall drawing.

The products are very diverse: for example, boiler structures, agricultural silos, compactors, parts for vehicle chassis, piping, etc.
Students learn to use CAD (computer-aided design) software.
They know how to draw up, with or without CAM (computer-aided manufacturing) software, the manufacturing process of an element: the chronology of the manufacturing phases, the equipment and tools, the operating data, and possibly the CAM control program.
This work requires the use of machines adapted to the different phases (laser cutter, plasma cutter, guillotine, press brake, rolling machine, welding robot) and the mastery of assembly techniques (riveting, bolting, welding, etc.).
Mainly oriented towards work in the workshop, the training however makes the student capable of intervening on site for installation or rehabilitation work.

2