

# Branch : Mechanical and Production Engineering



**Code :** MACTEC

**Option :** Machining Technician

**Level :** Bac Pro

**Prerequisites:**

**Opportunities:**

Machining technicians work in various sectors: mechanical industry (manufacturing of industrial equipment, tooling), aeronautics, automotive, electrical engineering and others.

**Description :**

In a company or in a mechanical workshop, the holder of this vocational baccalaureate masters the implementation of machining by material removal. They know how to analyse all the technical data and use the digital data chain (CAD - computer-aided design, CAM - computer-aided manufacturing). During the launch and monitoring of production, they prepare the tools and equipment. They design a program from a digital definition using computer-aided manufacturing software and then simulate the program. They implement and transfer digital data and set up the system for implementation. They choose the measuring and control equipment, and install and adjust the tools and tooling. The parts must be produced in compliance with quality, deadlines and costs. First-level maintenance is also part of the programme.

or part of the production means to obtain products by removing material.

During their training, students learn to analyse and exploit all technical production data. He or she is introduced to the use of the digital data chain (CAD, CAM, digital simulation).

This vocational baccalaureate enables students to acquire the skills needed to implement the production system; thus, each student will be able to adjust, check, conduct and monitor production, or prepare tools and equipment (workpiece holders, measuring and control systems) and deal with the problems of the entire production system.

In addition, within the framework of unit or small series production, students are also prepared to elaborate the operating process from a numerical definition with the help of specialised software, to choose the measuring and control equipment and the adjustments.

The teaching provided gives them the ability to use the machine, the equipment and the means to control parts.

Finally, the training also enables them to be initiated into first-level maintenance of the entire production system.

