



BTS CPRP

Design of Manufacturing
Processes

Work-study
program

Real opportunities on the job market
Vocational training
Developing human skills
Developing communication
Working in a team



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Success through the BTS CPRP

FIELDS OF ACTIVITY

The holder of the «Design of Manufacturing Processes» Advanced Technician's Certificate is required to work in the field of mechanical sub-assembly production. They are specialists in production processes involving the removal or addition of materials. As the designer of the associated processes, he or she is involved throughout the production chain of the mechanical components making up industrial sub-assemblies, whether consumer goods for the general public, capital goods for companies, specialized tooling or high value-added mechanical assemblies.



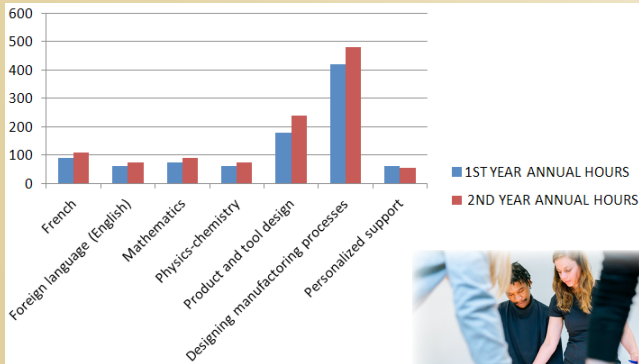
This technical, scientific, economic and human training enables the student to :

- **Collaborate with other specialists.**
- **Collaborate with engineers and managers in the company's departments.**
- **Help control costs, quality and innovation**

A SECTOR THAT'S HIRING!

Depending on the size of the company, holders of the «Design of Manufacturing Processes» Advanced Technician's Certificate carry out all or part of their activities in the various industrialization and production departments. In large companies, they work under the authority of a department manager (methods or production), notably in the definition of processes and the production of a subassembly. In SMEs, they may be more autonomous, carrying out activities involving preparation, execution and organization. These activities may lead them to become project managers, workshop production managers, or even assistant to the company manager. They may also consider taking over the company after further training in management. In all cases, the job involves working with a wide range of partners, such as principals and subcontractors, within a collaborative engineering framework.

A 2-year training plan focused on industry.



Pedagogical follow-up

- Motivated teachers
- Limited student numbers
- Tutorials and practical work in small groups, in a well-equipped workshop
- Ongoing assessment: regular homework assignments and personalised oral examinations
- Modern training tools
- Personalised information and advice on career guidance

Course content

Technical training on :

The study of machining processes, the design of tooling, the choice of the most suitable materials and types of manufacture, production and quality management, the constraints of serial production.

Use of IT resources (SolidWorks CAD / TopSolid CAM), production resources (multi-axis machines), measurement resources (CMMs), etc.

General training on :

Tailored to enable you to progress rapidly within the company and further your studies through communication and dialogue.

Weekly timetable

1st and 2nd year

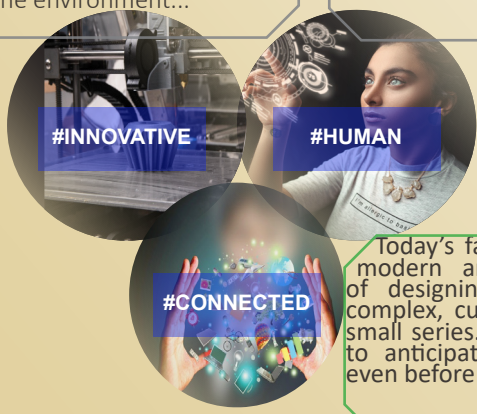
French	3h
English	2h
Mathematics	2.5h
Physic sciences	2h
Personalised support	1.5h
Product and tool design	6h
Design of manufacturing processes	14h
Co-teaching Mathematics / vocational training	0.5h
Co-teaching English / vocational training	1h



Training for the industry of the future:

Augmented vision, intelligent drones, 3D printing, robotics (robotics at the service of man), new-generation wind turbines, driverless electric vehicles, nanotechnologies, intelligent materials... Industry is reinventing itself, **innovating** to serve society and the major challenges it faces: mobility, demographics, consumption, the environment...

Men and women are at the heart of the Industry of the Future. Their skills, creativity and know-how contribute on a daily basis to the success of their company in a totally collaborative spirit. Today, and even more so in the future, the modern factory is **human** and at the cutting edge of new technologies.



Today's factory is digitized... it's modern and **connected**, capable of designing and manufacturing a complex, customized product in very small series. It uses virtual simulation to anticipate a product's life cycle, even before it goes into production.

A ROYAL route to the biggest companies

RECRUITMENT

The CPRP recruits general and technological STI2D baccalaureate graduates, as well as students with a vocational baccalaureate in the industrial field (machining technician, for example).

DIRECT ACCESS TO WORKING LIFE

- In methods, organization and production management departments.
- In production units.
- In purchasing, sales and after-sales technical departments.

FURTHER STUDIES

- TSS «Technicien Supérieur Spécialisé» - Specialized Advanced Technician (at Lycée Blaise Pascal in partnership with INSA Rouen).
- Professional licenses.
- Complementary subjects.
- «Classes préparatoires spécifiques BTS» - Specific preparatory class for BTS(ATs) for parallel admission to engineering schools.