

BTS FED

Fluides Energies Domotique - Option “Domotique et bâtiments communicants” (DBC)

The Higher Technician Certificate in “Fluids – Energy- Home Automation”



“Home automation and communicating buildings” option

Duration of studies: 2 years (possibility of apprenticeship in the 1st and 2nd year)

1 class per year (maximum enrolment: 24 students /year)

The aim of this course is to train **technicians** to be able to design, to operate, to optimize and to supervise **systems and building technical equipment** maintenance.

Students will learn to implement automated systems that assure **comfort, safety and energy management in buildings** and housing : building management system, HVAC : heating, ventilation, air conditioning, lighting, access control, alarm systems, home automation and fire protection systems.

The option “Home automation and communicating buildings” will give students more scope for developing **automation in homes** and **communication networks in buildings** as well as for improving **energy management** (smart grids, smart cities...).

The projects studied come from real projects, such as individual homes, blocks of flats, hospitals or office buildings.

Skills:

- Analysis of client requirements (public contracting authority, individuals...)
- Analysis of the functioning of a system
- Designing technical solutions
- Drawing plans and diagrams (computer-aided design and 3D modeling with the [software Autocad and Revit](#) for example)
- Programming (Program a KNX installation with ETS 5)
- Regulations
- System commissioning
- Project management
- Team leading

- Communication
- Customer relations
- General knowledge
- Mathematics
- Science: physics and chemistry
- Health / Safety /Environment
- Sales techniques
- Economic management

The training program allows students to acquire **technical, commercial, legal and managerial knowledge** in order to **study, cost, make and operate** efficient technical solutions that are environmentally friendly.

Possible jobs: **technician in a design office, commission technician, business manager.**

During the training course: an **8-week internship** in a company.