Branch: Construction topography

Code: CONTOP
Option: Construction and topography
Level : BEP
Prerequisites: BEPC and/or CAP
Opportunities:
If the student has chosen the construction major: in a building economist's (formerly quantity surveyor's) or architect's office, in a building or public works company, in the technical services of a town hall.
If the student has chosen the topography major: in a surveyor's office, in a topography company (service companies that work in surveyor's offices and deal with the legal and administrative aspect of land use), in a mapping department, in a public works company, in the national office of water and forests, in the technical services of a town hall or in the D.D.E. (Direction Départementale de l'Equipement). (Direction Départementale de l'Equipement).

Description
In construction - To participate in all operations of preparation, monitoring and compliance of a construction:
Drawing up the specifications for the construction, drawing up plans, calculating the quantities of materials, estimating the cost of the construction (estimate), coordinating the various trades, checking the conformity of the execution with the project.

In surveying - To participate:

The study of a plot of land in all its aspects (dimensions, slope, relief, natural

the production of ground plans (plans that situate a construction or development on the ground in relation to the land)

From the plans, the location of the work to be carried out is marked out on the ground. These operations are prior to any construction, development, consolidation, drainage or drainage programme, but also to the demarcation of properties.

In construction: by going to the site to collect the elements necessary for the constitution of the various files relating to the construction (technical, administrative, etc.), by carrying out studies and calculations (quantity of materials, resistance of the elements of the construction, costs, manufacturing time, etc.) in an office, based on plans, by drawing up the detailed plans necessary for the various trades.

In topography: by carrying out surveys on the ground using optical equipment: theodolite to measure angles, tacheometer to measure distances, automatic level which calculates differences in level, or more sophisticated equipment which carries out several operations in parallel (total station, rotary level), by entering the data collected into a computer to draw up plans using CAD software. (Computer Aided Drawing) software, by planting the stakes on the ground to mark out the construction, by filling in the administrative documents (town planning certificate, survey document, etc.), by providing the owners and the administration with the plans of the properties in accordance with the land register.

Quality and competences :

Pupils who are destined for this training should not be put off by geometry, drawing and calculations. They must have qualities of care and precision. This training is not at all contraindicated for girls. It should be noted that a large part of the vocational training takes place outdoors, especially in the field of surveying.