

Filière: Electrical engineering professions



Code: ELENPR

Option: Electrical engineering professions

Level : BEP

Prerequisites : BEPC and/or CAP

Opportunities :

The holder of this BEP can be employed by electrical installation or maintenance companies or by companies which have their own electrical maintenance department (SNCF for example), by local authorities or the State and by any production plant which uses automation (in the automotive or food industry, etc.). They can work in all types of premises, whether professional (factories, workshops, shops, warehouses, etc.) or private (residential buildings). They may also work on external sites (road network, public lighting). It is possible, then, that he may have to work 15 m high in a gondola or in pits to install underground cables.

Description

To set up electrical power distribution equipment at the point of use

To install, commission, check and repair machines and equipment using low voltage electrical energy between 24 and 380 V (machine tools, hoists, etc.)

To renovate existing installations (lighting and heating systems, machine power supply systems, and all energy distribution systems in general...).

By researching and gathering documents and information (diagrams,

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By organising the work (choice of materials, organisation of the workstation, etc.)

By carrying out the installation and fixing operations (cutting, drilling, welding) required for an installation

By carrying out the connections: wiring

Preventing breakdowns, searching for their origin and carrying out repairs (preventive and curative maintenance)

By carrying out measurements and checks to verify correct operation and compliance with personal safety.

Quality and competences :

The students who are destined for this training must expect a rather substantial theoretical programme in vocational education. However, the knowledge of electricity is directly applied in concrete activities, which gives this diploma a good balance between theory and practice. A sufficient level of mathematics (in particular a good capacity for analysis) is essential to be able to tackle the electricity programme without difficulty. Candidates for this BEP must be aware of the safety constraints (e.g. strict traffic regulations in the workshops). These must be observed during vocational teaching hours and no exceptions are permitted. Certain types of colour blindness may be a contraindication.