



## Low voltage electrical installations

Electricity is indispensable in our society as it exists today. Electricity is an energy source that is easy to transport and to use. Further, it forms the basis of a very wide range of applications, extending from all kinds of household appliances, to computers, and to the most advanced achievements in the field of medicine, communications, etc. As is true of all forms of energy, electricity will only retain its function as long as it is used within specified conditions. Our experts carry out the necessary checks to ensure this, and shall issue you with a certificate in case of positive results.

### Your tailor-made solution

The electrical installations must be manufactured using safe electrical equipment, according to their intended purpose, and all their components should be properly maintained in accordance with the rules of the RGIE and of good workmanship. This should be done in such a manner that in case of faultlessly executed maintenance and use in accordance with the intended purpose, no danger is caused to personal safety and to the preservation of property.

### References to safety in relation to electricity may refer to various aspects, including:

- the safety aspects relating to the design of the installations: a good choice of materials and installation methods, apart from correct dimensioning, so as to ensure the safe and efficient operation and the safe use of the installations
- safety during the implementation of the installation, with execution of the installation in accordance with the design on the one hand, and the safety of the persons performing the installation on the other
- the safe operation of the plant: for safe operation and use, to notify and handle the problems that may arise, etc.
- safety during maintenance, detecting faults, repairing the same, conducting inspections, making minor extensions or changes, and similar interventions in installations during operation, apart from the actual use of the plant itself

Insurance companies (Assuralia) grant discounts on the insurance premium if certain preconditions are fulfilled, specific requirements are met, and certain inspections are carried out. Such inspections have to be carried out by authorised bodies like Vinçotte.

If the inspection results are positive, our experts shall award the certificate required by insurance companies.

### Our services ensure the following:

- compliance inspections and periodic annual inspections
- advice on how to work safely on electrical systems (implementation of BA4- BA5)
- inspection of old electrical installations (short-circuit currents, fault loop impedance, cable calculations, direct and indirect contact, etc.)

Safety, operational reliability and comfort hold the key to the proper functioning of an electrical installation. Entrust the inspection of your electrical system to a Vinçotte specialist.

### Your result

### Please note

General Regulations for Electrical Installations (RGIE):

Art. 270 Pre-commissioning Compliance Inspection of Low Voltage installations

Art. 271 Inspection visits to low voltage installations

Art. 7: Electrical equipment for low voltage

- Art. 19: Preconditions for installation of electrical equipment depending on its surroundings.

Art. 57: Electric arc welding and cutting

Art. 268: Duties of the owner or the manager of industrial companies

### **General Regulations for the Protection of Employees (ARAB):**

- Art 52.11 Periodic inspections
- Equipment for fire fighting, detection and alarm as well as electrical installation, gas and heating systems must be regularly inspected by the employer, his agent or his deputy

Royal Decree of 4th December 2012 on the minimum requirements relating to the safety of electrical installations in workplaces.

Royal Decree of 2nd June 2008 concerning the minimum requirements for the safety of certain old electrical installations in workplaces.

### **Periodic inspections are carried out after the initial inspection:**

1. every five years, in the case of low-voltage installations;
2. annually in the case of high-voltage installations;
3. annually in case of installations located in areas in which there is a risk of explosion of a mixture of air and gases, vapours, mists or dust;
4. annually in case of temporary or mobile installations as per Section 270 of the RGIE.

Assuralia: Insurer Rules concerning electrical installations REGELEK 2013 : Assuralia - Requirements relating to electrical installations

### **In which situation?**

#### **This service is primarily intended for:**

- private persons (residences)
- SMEs
- service stations, campings, hotels, restaurants, football stadiums, etc.
- temporary installations: circuses, fairground amusements, markets, yards, etc.
- industry