

Energized systems

Work on energized systems is very hazardous due to the presence of active energy (electrical, mechanical, thermal, or other types). It is essential to adopt strict preventive measures and clear operating procedures to ensure workers' safety.

At the end of the work, safely restore the system to operation.

E.g.: remove all temporary safety measures and restore the initial conditions. The return to service must be formalized and authorized by the responsible person.

Ensure that you are properly trained, qualified, certified, and authorized to perform electrical work in accordance with applicable local law and company requirements.

E.g. where required, maintain such qualification or authorizations current and valid.

It is mandatory to have specialized training to perform electrical work.

E.g.: make sure you hold up-to-date PES, PAV, and PEI training certificates (every 5 years) and that you have been formally qualified and appointed by your Employer, with indication of the type of electrical work.

Before starting the activity, verify that no energy is present.

E.g.: use an instrument to check for the presence of voltage, such as a multimeter/tester.

Mark and cordon off the work area to indicate that access is forbidden to unauthorized personnel.

E.g.: use temporary hazard signs or red-and-white tape to delimit the area.

Apply specific procedures to ensure that systems are safely de-energized during inspection and/or maintenance operations.

E.g.: apply tags and/or locks to indicate the isolation of energy sources and prevent unintended re-energization (LoToTo procedures).

Ensure that you are familiar with the emergency plan, and that fire-fighting and first-aid equipment are available.

E.g.: before starting the activity, ensure that escape routes, the assembly point, fire extinguishers, and the first-aid kit are known and unobstructed.

Be aware of the effects of electric current on the human body.

E.g.: the passage of current through the body can cause involuntary muscle contractions, burns, and disruption of vital functions.

It is mandatory to use Category III PPE and check its integrity before use.

E.g.: wear appropriate clothing and insulating PPE (gloves, face shields, garments, dielectric safety footwear). Remember that Category III PPE must be inspected annually.

Ensure you use equipment with CE marking, in good condition, and suitable for electrical work.

E.g.: equipment must be made of insulating material with indication of the maximum AC voltage it can withstand.



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