



HAZARDOUS ENERGY

INFORMATION AND RESOURCES ON THE CONTROL OF HAZARDOUS ENERGY (LOCK-OUT/TAG-OUT)

SOURCES OF ENERGY

ENERGY IS...

Energy is a complex term that includes a number of types of energy (kinetic, potential or radiant) and energy exists in many forms such as:

- Electrical
- Mechanical
- Hydraulic
- Pneumatic
- Chemical
- Thermal
- Gravitational
- Radiation

Also includes situations where “the possibility of movement” exists including objects, semi-solids, slurries and liquids.

HAZARDS FROM UNCONTROLLED ENERGY

Workers exposed to uncontrolled energy can be killed or seriously injured if that energy is released. Uncontrolled energy can result in: electrocution, severe burns, broken or shattered bones, crushed organs or body parts, amputations, severe hematomas & lacerations.

HOW TO CONTROL THE HAZARD

Turn off AND disconnect energy sources and prevent equipment from being accidentally re-engaged.

Isolate the energy by **locking** it in a safe position preventing accidental release of that energy.

Tagging affected equipment to alert and prevent other workers from re-engaging the energy source.

Train all workers on the risks of uncontrolled energy, how to isolate it using devices and how to recognize when energy sources are isolated by other employees or contractors.

COMMON LOCATIONS WHERE UNCONTROLLED ENERGY IS FOUND

- Mechanical Rooms
- Machine Shops
- HVAC Equipment
- Automobile Shops/Garages
- Utility Vaults and Panels



EMPLOYER REQUIREMENTS

Employers must...

1. Document how hazardous energy is controlled with specific procedures for the equipment being serviced and provide employees access to the program.
2. Train all authorized, affected and other workers (including contractors) appropriate to their responsibilities under the program.
3. Utilize suitable and durable devices to lock-out equipment to prevent unintentional start-up.
4. Audit energy control procedures in the field at least annually.
5. Enact a policy that only allows the worker who applied the lock to remove the lock.
6. Ensure new equipment is capable of being locked out.
7. Develop emergency lock removal procedures.

CSEA MEMBERS LIKELY TO BE EXPOSED TO HAZARDOUS ENERGY

- Electricians
- Mechanics
- Custodians
- HVAC Technicians
- Maintenance Workers
- Laborers
- Machine Operators

For more information and resources visit:

www.cseany.org/safety



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THE CSEA SAFETY NET

Knowledge is power—but collective action saves lives.

At CSEA, transforming knowledge into action is central to our mission of protecting workers. When hazards and close calls are documented and reported, they can be addressed before they cause harm. That's how we prevent injuries and illnesses—by making sure problems don't get ignored. Your voice and vigilance are essential. Now more than ever, we need your help to ensure every workplace is safe, healthy, and accountable.

THE LIFE YOU SAVE COULD BE YOUR OWN!