



# LOCKOUT / TAGOUT

## Basic Safety Certification Course

**Target Audience:** This CEU-accredited course (#DS/DW/WW-02094002 at 0.7 CEU) is designed for utility and other agency employees, water or wastewater workers, distribution workers, water plant or wastewater plant operators, lift station mechanics or other agency employees who are regularly exposed to hazardous mechanical, electrical, chemical, and/or stored energy and seek qualified worker status.

**The course is also recommended for** safety officers, risk managers, human resources professionals or others with safety program coordination responsibility.

Trainees will receive a Training Certificate!



**For more information or to inquire about upcoming training:**

**Email:** [info@WeTrainAmerica.com](mailto:info@WeTrainAmerica.com)

**Telephone:** 813.995.8872

**Website:** [WeTrainAmerica.com](http://WeTrainAmerica.com)

# Classroom training includes videos, handout materials, PowerPoint presentation(s), and interactive virtual exercises.

## Mechanical Lockout Tagout

**Mechanical Maintenance Safety:** Relative OSHA standard 1910.147 covers the servicing and maintenance of machines/equipment in which the unexpected energization or start-up of machinery or release of stored energy could cause injury to employees. Included in this training:

- Case studies related to mechanical lockout hazards and common accidents.
- Mechanical hazards relative to maintenance, repair, adjustment, parts replacement, strainer change-out, regular cleaning, and mechanical or operational problems (aka "jams") or machinery or equipment
- Principles of lockout tagout with worksite safety engineering, safe work practices, other protective devices & products, special clothing and proper use of personal protective equipment (PPE)
- Definition of hazardous energy sources and lockout tagout concepts applicable to agency's work environments
- Review of the various isolation and/or lockout tagout devices available and correct determination on situational application of devices.



## Chemical Systems Lockout Tagout

**Chemical Maintenance Safety:** This training references the specific management practices per the Federal HazCom Standard 1910(h) and OSHA Standard 1910.120. Included in this training:

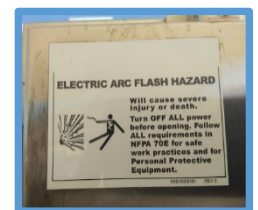
- Managing chemicals, chemical inventory, Material Safety Data Sheets (MSDS)
- Receiving chemicals, storage, labeling and warning signs
- Work site safety engineering and safe work practices
- Personal Protective Equipment (PPE) and clothing
- Transportation of chemicals
- Clean-up, recovery and Level 1 Emergency Response
- Spill prevention, control and counter measures
- Illegal discharge, disposal and dumping of chemicals



## Electrical Systems Lockout Tagout

**Electrical Maintenance Safety:** This training combines the principles of electrical safety, lockout tagout, worksite safety engineering, safe work practices and the use of protective devices/products, special clothing and personal protective equipment (PPE). Included in this training:

- Case studies related to electrical shock, electrocution, burn and arc flash accidents
- Basic electrical theory and electrical systems
- Effects of electrical energy on the human body
- Maintenance of de-energized systems
- Maintenance of energized/partially de-energized systems
- Determining arc flash potential and protection from arc flash
- Safe clearance distances, limited/prohibited approach boundaries and fire-resistant clothing relative to nominal voltages
- Limits of qualification and specific procedure locations
- Inspection and safeguarding of electrical installations



## Virtual Exercises

An important segment of the lockout tagout training is the utilization of interactive virtual exercises, with numerous situations presented to segmented groups of attendees who are tasked with solving the various hazardous energy issues.

