The Safety Professional's Expanded Guide to LOCKOUT

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Understanding Lockout Tagout

What is lockout tagout and what does it mean for you?

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Understanding Lockout Tagout Basics

Lockout tagout is a critical component of employee safety and workplace productivity. We know that regulatory requirements dictate that you must be lockout tagout compliant. But what does that really mean for you, your employees and your safety program?

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Why Lockout Tagout?

Lockout tagout is an important safety component to your workplace. In fact, it's critical to safeguarding workers and employees around the machinery and equipment they operate, service and maintain.

This important safety practice involves de-energizing electrical circuits, closing valves, neutralizing extreme temperatures and securing moving parts so hazardous energy isn't re-introduced while equipment is being serviced. That way, your employees can get their job done as safely as possible to keep your operation running efficiently.



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Lockout Tagout at a Glance:



LOCKOUT

Physically ensuring a machine is inoperable while repairs or adjustments are made with the use of a padlock and a suitable device.

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DANGER	
DO NOT OPERATE	

TAGOUT

Clearly communicating to workers that the equipment is being serviced with labels and tags when lockout is not a viable option.

When it comes to your lockout program, your **employees** are the priority. They face equipment challenges every day on the shop floor and deserve protection they can trust.



Beyond the Products

An effective lockout tagout program goes beyond the locks, tags and devices. In fact, the majority of citations are a result of a lack of proper lockout procedures, program documentation, periodic inspections or other procedural elements.

Lockout tagout programs are most successful when you look at the complete safety picture. That means making sure employee training, instructive procedures, the right products and a dedication to continuous improvement are all part of your program. By taking this approach, you could realize great benefits throughout your organization, including:

- **SAVING LIVES** Preventing an estimated 250,000 incidents, 50,000 injuries and 120 fatalities annually
- CUTTING COSTS Significantly decreasing lost employee time and insurance costs
- IMPROVING PRODUCTIVITY Reducing equipment downtime

By taking a comprehensive approach to your lockout tagout program, just think of the accidents you could prevent.



Compliance with the lockout tagout standard prevents an estimated

120 fatalities and 50,000 injuries each year.²

LOCKOUT STATI

Regulatory Overview

You know you need to comply with lockout tagout. Now let's dive deeper into the regulations surrounding lockout tagout compliance.





U.S. Regulatory Requirements

Since the Occupational Safety and Health Administration (OSHA) introduced its lockout tagout standard in 1989, it has played a vital role in keeping employees safe on the job. We'll walk you through just what these standards mean for you.

OSHA 29CFR 1910.147 - Control of Hazardous Energy

Definition: General industry workers performing servicing and/or maintenance on machines or equipment and who are exposed to the unexpected energization, startup or release of hazardous energy.

OSHA 29CFR 1910.333 - Electrical Safety

Definition: Safety-related work practices shall be employed to prevent electric shock or other injuries resulting from either direct or indirect electrical contacts, when work is performed near or on equipment or circuits which are or may be energized.

ANSI Z244.1-2003 - Lockout Tagout and Alternative Methods

Definition: A voluntary national consensus standard that represents several industry hazardous energy control best practices and also promotes greater flexibility through the use of alternative methods based on risk assessments and application of the hazard control hierarchy.



Lockout Tagout around the World

CANADA

CSA Z460:2013 - Control of Hazardous Energy

Definition: Control of any electrical, mechanical, pneumatic, chemical, nuclear, thermal, gravitational or other energy that can harm people.

EUROPE

C2006/42/EC - Machine Directive

Definition: Focusing on the free market circulation of machinery and the protection of workers using such machinery, this directive defines essential health and safety requirements of machinery.

22009/104/EC - Work Directive

Definition: The employer shall take every measure to ensure the safety of the equipment made available to workers.

INTERNATIONAL

IEC 60204 - Safety of Machinery (Electrical)

Definition: Applies to the application of electrical, electronic and programmable electronic equipment and systems to machines not portable by hand while working.

IISO 14118 - Prevention of Unexpected Start-Up

Definition: Keeping a machine in a stopped condition while persons are present in danger zones is one of the most important conditions of the safe use of machinery.

There's no disputing the benefits of an effective lockout program the sooner you start improving your program, the better for everyone involved.



In countries where lockout standards are followed, accidents, injuries and fatalities have been reduced by

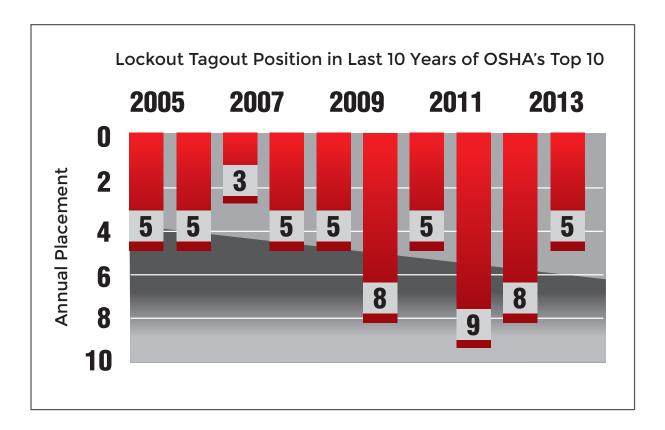
80% or more.



History of Lockout Tagout in OSHA's Top 10

Even after 20 years in action, OSHA's Lockout Tagout standard (1910.147) continues to be one of its Top 10 Most Frequently Cited Standards.

We've created the chart below to show you how the standard has ranked over the past 10 years.



You'll see that in the past few years, the position of lockout tagout in OSHA's Top 10 Most Frequently Cited Standards list had improved – even dipping to ninth position in 2012. In 2014, however, it again climbed the chart to fifth position. This tells us that although lockout tagout is part of the daily routine for many companies, there is still opportunity to achieve full compliance and adopt industry best practices.

QUESTION

Now that you know lockout tagout is a frequent culprit on OSHA's Top 10, can you guess which section of the lockout tagout requirements has been the most cited over the past 10 years?

- 1. **1910.147(c)(2)(iii)** After 1/2/1990, new equipment must be designed to accept a lockout device
- 2. 1910.147(c)(8) Performance by authorized employees only
- 3. 1910.147(f)(3) Group lockout or tagout
- 4. 1910.147(d)(4) Lockout or tagout device application



ANSWER

1910.147(d)(4) - Lockout or tagout device application

While (d)(4) is the most frequently cited, there are four additional sections that are consistently cited based on OSHA's 2013 statistics.

Top Cited Sections		Number of Violations
1910.147(c)(4)	Requirements in energy control procedures	996
1910.147(c)(6)	Requirements to periodically inspect the energy control procedure	653
1910.147(c)(1)	Energy control program requirements	651
1910.147(c)(7)	Training and communication requirements	580
1910.147(d)(4)	1910.147(d)(4) Requirements for the application of lockout tagout devices	

What does this tell us? Procedures, program implementation and communication are the foundational elements that drive lockout compliance. If these elements are not in place, true compliance simply isn't possible.



6 Essential Elements of Lockout Tagout

Now, where do you begin? We believe that the best approach is to establish the 6 essential elements of lockout tagout safety and then use this base to continuously improve your program.

DANGER

LOCKED OUT



DID YOU KNOW?

A typical lockout program can contain **over 80 separate elements**? This includes creating, maintaining and updating equipment lists and hierarchies, task-specific procedures and workplace regulations (such as confined space entry requirements).

To keep these tasks manageable, we split them into 6 key elements. Let's get started:

1. Program/Policy

The first step to lockout tagout success is developing and documenting your equipment energy control policy/program. A written lockout document is the skeleton of your overall lockout program - It essentially establishes and explains the elements of your program.

It's important to take into account not only OSHA's guidelines, but also custom requirements for your employees that ensure they can understand and apply the program to their workday.

A program is not a one time fix, it should be reviewed on an annual basis to ensure it's still relevant and effectively protects employees. Creating a lockout program should be a collaborative effort from all levels of the organization.





2. Machine/Task Specific Procedures

It's important that lockout procedures are formally documented and easily identify the equipment covered. They should detail the specific steps necessary for shutting down, isolating, blocking and securing equipment to control hazardous energy, as well as steps for the placement, removal and transfer of lockout/tagout devices.

Going beyond compliance, we recommend creating best practice procedures that include machine-specific photos identifying energy isolation points. These should be installed at the point of use to provide employees with clear, visually-intuitive instructions.

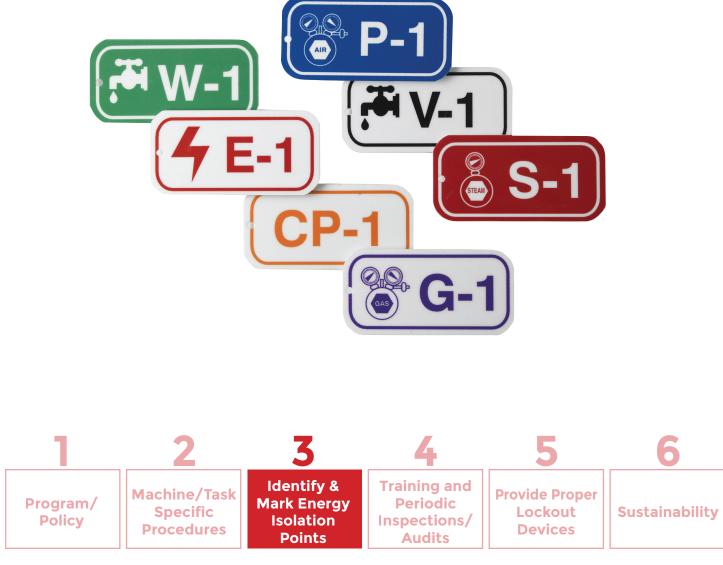
In addition, be sure your procedures are tailored to your workforce to help increase employee understanding. For example, you should post multi-lingual procedures if you have a multi-lingual workforce.



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3. Identify & Mark Energy Isolation Points

Locate and identify all energy control points, including valves, switches, breakers and plugs, with permanently placed and standardized labels or tags. These points must be clearly marked. You should also keep in mind that these labels and tags should be consistent with the equipment-specific procedures from Step 2.



Chapter 3 / 16



4. Training and Periodic Inspections/Audits

Be sure to adequately train your employees, communicate processes and conduct periodic inspections to ensure your program is running effectively. Training should not only include OSHA requirements, but also your own specific program elements, such as your machine-specific procedures.

When OSHA evaluates company performance on lockout tagout compliance, it looks to training for employees based on the three following categories.

- AUTHORIZED Those who perform the lockout on machinery and equipment for maintenance
- AFFECTED Those who do not perform lockout requirements, but use the machinery that is receiving maintenance
- **OTHER** Any employee who does not use the machinery, but who is in the area where a piece of equipment is receiving maintenance





5. Provide Proper Lockout Devices

The next element of your lockout program is providing employees with the necessary devices to keep them safe. There are many products on the market, and selecting the most appropriate solution for your application is the key to lockout effectiveness. It's important to document and use devices that best fit each lockout point.

WHEN LOCKING OUT A PIECE OF EQUIPMENT, IT'S ESSENTIAL TO FOLLOW THESE 7 STEPS IN ORDER TO BE COMPLIANT AND SAFE:

- 1. Notify affected employees of your intent to lock out the equipment
- 2. Review the written lockout procedure
- 3. Perform the normal machine stop
- 4. Shut off all energy isolation controls
- 5. Lock out the energy isolation controls
- 6. Dissipate any stored or residual energies
- 7. Verify the zero-energy state to safely begin servicing



6. Sustainability

Last but not least, we recommend taking a continuous improvement approach to your lockout program. By consistently reviewing your program, you are creating a safety culture that proactively addresses lockout tagout. This allows your company to focus on maintaining a world-class program, instead of starting from scratch each year and reacting only when something goes wrong.

Not sure you can maintain the costs of sustainability? Consider the costs of re-creating your lockout tagout program each year - when you could simply maintain your program throughout the year to enhance your safety culture while reducing money spent re-inventing the wheel. When looking at your program from this perspective, it's clear that a sustainable program helps you stay one step ahead, while saving time and money.





The Lockout Tagout Scavenger Hunt

Now that you know the elements you need – let's put your facility to the test. Take a walk around your workplace and check to see if you have the following items:

• Machine-Specific Procedures Are your employees trained on them?



• Fully Stocked Lockout Tagout Stations Are they updated?



• **Permanent Identification Labels** Are they easily identified?



• Locks, Tags & Devices Were they easy to find and the proper devices for the types of equipment?



• **Tutorial or Training Posters** Do these align with your employee training?



• Corporate Safety Messaging Could your employees easily define these?

DID YOU FIND THEM ALL? GREAT! WERE YOU MISSING A FEW?

Now's your chance to update what's needed and begin your continuous improvement journey.

Next, ask a few of your employees to perform the same scavenger hunt. This will help you determine how well they understand your lockout program. After all, your employees are the ones responsible for performing lockout tasks. If they can't easily spot the device or procedure necessary, then it is likely out of sight, out of mind.

The Cost of Non-Compliance

While aligning with the standard might be an intimidating task, the consequences of non-compliance are much more impactful.





The Cost of Non-Compliance

HOW DOES IT IMPACT YOUR EMPLOYEES?

Every employee deserves to come home safely every day. The best way to achieve this is to ensure your lockout tagout program is not only compliant, but meets the custom needs of your workforce. We all know that non-compliance can have a serious, negative impact on the safety of your employees. But did you realize that failure to control hazardous energy sources accounts for nearly 10% of serious accidents and 7% of fatal injuries each year⁵?

"People believe that even such simple equipment [devices] will slow them down. It will somehow get in the way of normal operations. But, if it's properly designed, it certainly won't. And it could save lives."

> Judith Hackitt, CBE, HSE Chair regarding management's ownership within implementation of LOTO systems



The Cost of Non-Compliance

HOW DOES IT IMPACT YOUR BOTTOM LINE?

Non-compliance not only impacts the well-being of your employees, it can be a financial disaster for your company and kill your productivity.

It's alarming that failure to meet lockout tagout standards is one of the most commonly cited OSHA violations, as these fines can cost employers more than \$894,000 in one incident.⁶ Not to mention that a serious accident could lead to additional penalties, legal fees, medical costs, lost productivity and negative media attention, potentially costing millions and millions of dollars for the company.

Just think about how 24 days without one of your experienced workers would impact your turn-around time, on-time delivery and parts per million (PPM) metrics at your facility.



Your Lockout Tagout Checklist

Let's take a deeper dive into how your facility stacks up when it comes to lockout tagout. Fill out the following checklist to determine where to go from here.



SECTION 1: PROGRAM/ POLICY	СНЕСК		
Do you have a written Energy Control / Lockout Tagout Program and procedures in place?			
Is your lockout tagout procedure information stored and accessible to employees?			
SECTION 2: PROCEDURES			
Do you have machine-specific Energy Control Procedures?			
In cases where machines do not have lockout procedures yet, do you have generic pre-task plans and procedures?			
When you upgrade equipment, do you incorporate this into your lockout procedure?			
SECTION 3: ISOLATION POINTS			
Are labels clearly posted to mark energy isolation points?			
Do you have your energy sources marked with energy source ID tags?			
SECTION 4: TRAINING			
Do you conduct training for Authorized Employees, Affected Employees and Contracted/Other Employees?			
Are your employees trained on your facility-specific lockout devices?			
Do you maintain lockout tagout training records?			
SECTION 5: DEVICES			
Do you have a documented equipment list or an asset management system?			
Are your padlocks standardized by either color, shape or size?			
Do you have appropriate lockout devices for each type of energy control point in your facility?			
Are your lockout devices readily available next to machinery?			
Does your facility include lockout warning signs and labels?			
Do you utilize lockout stations?			
SECTION 6: SUSTAINABILITY			
Do you annually audit your lockout procedures?			
Do you consistently track and annually review your lockout tagout program?			

You've gone through the checklist. Now think about your answers and see what lockout implementation stage your facility aligns with.

	STAGE 1	STAGE 2	STAGE 3	
1. PROGRAM/ POLICY	"We do not have a written program, but we have a general, site-based procedure that my employees use to lockout their equipment. Our program information, if any, is stored in an Excel file or on a shared drive."	"We have a site-based procedure and machine-specific lockout procedures available. Information is stored in a homegrown Excel file or through SharePoint. The company policy is posted around the plant."	"We have a corporate policy and documented procedures for each piece of equipment. Machine-specific lockout procedures are posted for our employees to reference. Our protocols are reviewed regularly to ensure compliance."	
2. PROCEDURES	"We do not have machine-specific lockout procedures. We rely on the site-based lockout procedure, which is kept in a binder and can be accessed by employees at any time. I'm unsure if adjustments have been made since the documents were created."	"We do have procedures that have been developed for each piece of equipment. The procedures were developed internally and are kept in a binder, shared drive or SharePoint site for our employees to access. Anytime a procedure is audited, we add new equipment procedures as needed."	"Procedures with both written and visual components have been developed for each piece of machinery. These procedures are posted with the respective piece of equipment so that any employee working on that piece of equipment can easily access the procedure. When equipment is upgraded, a new procedure is drafted before the piece of equipment is energized."	
3. ISOLATION POINTS	"Some points are labeled, others aren't. It really depends upon the machine."	"Most energy isolation points are labeled or tagged."	"All energy isolation points are tagged and referenced in that machine-specific procedure."	



	STAGE 1	STAGE 2	STAGE 3
4. TRAINING	"We do not have a standardized training program. In general, the current operator will train the new operator on the procedure. We don't worry about contractors because our contractors are coming from a third party provider."	"Employees and contractors receive a brief orientation on the overarching company safety policy and general site-based lockout tagout procedures. A general lockout device training is included in this orientation. We do not differentiate	"All new, transferred and contracted employees receive a safety orientation. We then have specified tracks for affected and authorized employees. After training, a hands-on lockout device module is completed. In addition, all of our machinery is tagged with
		between authorized and affected employees - all receive the same basic orientation. We document that the orientation has taken place."	visual cues. All training is logged and tracked by each employee and I receive prompts when retraining is required."
5. DEVICES	"We have a number of devices within our facility - we use whatever fits the energy isolation point. Devices are stored away from where lockout takes place. We do not maintain a list of equipment and lockout devices needed. Labels and signs are seldom used throughout the facility."	"When our procedures were written, we received product suggestions and purchased accordingly. Some of our devices are kept in lockout stations. We maintain a spreadsheet of what equipment is used and what lockout device is needed. We use some labels and signs to indicate or warn workers against hazards and the need to lockout equipment."	"The equipment requirements to lockout each piece of machinery are visually documented in the machine- specific lockout procedures that are posted around the plant. We use an asset management system to track our equipment and lockout devices. We have lockout stations positioned in every sub-section of the manufacturing facility that have been specially outfitted with devices specific to the equipment needs in those areas. Our equipment devices are standardized so employees can easily recognize them. Also, signs and labels are used throughout the facility for warnings and guidance."
6. SUSTAINABILITY	"We haven't made any adjustments to our procedures or lockout program since they were created. "	"We audit our procedures and update our program in the event of an issue or incident."	"Procedures are audited annually. Whenever we implement a new piece of equipment, information regarding that piece of equipment is incorporated into the company policy and a machine-specific lockout procedure is drafted. We track the program throughout the year and annually review performance for continuous improvement."

The Path to World-Class

Now you're probably wondering where to go from here and how you can manageably move your program from your current state to a world-class state. Well, you're in luck! Let us explain...





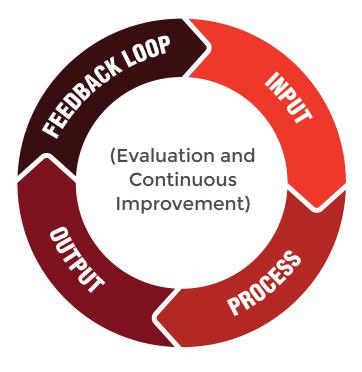
To create a world-class lockout tagout program at your company - one that sends employees home safely every day - it's important to take a systems approach. That means thinking of the big safety picture.

WHAT IS A "SYSTEMS" APPROACH?

To best explain, let's first start with "programs." A programs approach focuses on compliance - putting the devices and processes in place to align with the necessary regulations and leaving it at that. This is typically a reactive approach influenced by a crisis or a fear of citation costs.



A "systems" approach goes beyond compliance to focus on performance. This is a proactive approach to continually improve your workplace and incorporate safety into the daily culture.

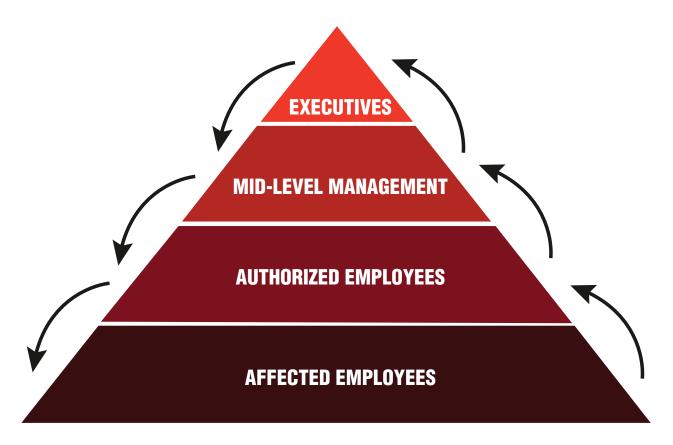




Let's take a look at just how a "systems" approach benefits your company.

A systems approach is integrated into the day-to-day management of the facility so that a safety culture can be formed over time. For this to occur, there are two key inputs:

- Management buy-in to promote change and sustainability
- Employee involvement from all levels: executives, mid-level management, authorized and affected employees



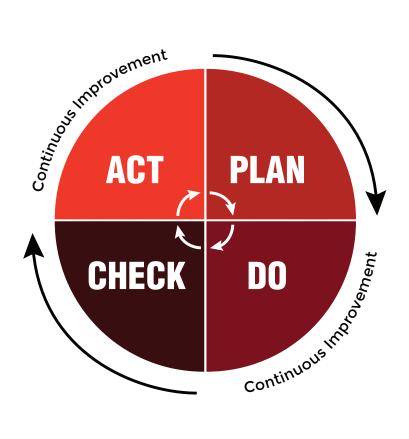
Building and Maintaining a Safety Culture



With the support of management and involvement throughout the organization gained, the next requirement is working through the following steps⁸:

- 1. Develop a plan
- 2. Put the plan into action
- 3. Check the plan periodically
- 4. Identifying areas of opportunity

Throughout the process, it's important to reinforce employee engagement and watch your employees to better understand what they are struggling with and responding to well.



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Think You Have it Down?

To be sure, take a look at how a basic compliance "programs" approach compares to a world-class "systems" approach to lockout tagout.

SYSTEMS APPROACH		PROGRAMS APPROACH
Best in Class	vs	Compliance
Integrated System	vs	Siloed Program
Multi-Level Involvement	vs	Singular Ownership
Plan-Do-Check-Act	vs	One Time Fixes

To learn more about implementing an effective, sustainable lockout tagout program that goes beyond compliance, visit BradyClientServices.com

For more information on lockout tagout products, visit BradyID.com/lockout

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