

 **WÜRTH | INDUSTRY****Master  
Lock**<sup>®</sup>

# PROFESSIONAL SAFETY SERVICES

**LOCKOUT AND ELECTRICAL SAFETY**

# PUTTING SAFETY FIRST

Nothing is more important than keeping your people safe. Whether you're trying to establish a new comprehensive safety program or focusing on select elements to make improvements to an existing program, successful partnerships can make all the difference.

At The Master Lock Company, we work with companies just like yours to help implement best practices, ensure compliance to regulations, and protect lives. We offer services focused on lockout management and electrical safety. Our goal is to help you achieve a compliant safety program and make sure your organization is well-equipped to optimize productivity and efficiency. Together, we make work environments safer.



# LOCKOUT SERVICES

Lockout safety programs and procedures ensure that machines and equipment are properly shutdown when maintenance and repair work is needed to prevent accidents, ensure compliance to regulations including OSHA 29 CFR Part 1910.147, and most importantly protect lives.

Lockout procedures are required for all equipment with multiple energy sources within a facility. Visual lockout procedures are the industry standard and provide workers with a reference tool for outlining:

- Control of hazardous energy on machinery and equipment
- Application and removal of lockout equipment
- Verification that machinery is in a zero-energy state



OSHA 1910.147 is a consistent top 10 OSHA violation, resulting in over 2,500 citations and \$20M in penalties annually.\* Our team of lockout experts can help you ensure your facility is compliant through our systematic audit and visual lockout procedure writing process. Our technicians have years of experience writing programs and procedures for companies across all industries.

**STEP 1**  
**EQUIPMENT AND ENERGY SOURCE IDENTIFICATION**

**STEP 2**  
**DEVELOPMENT OF LOCKOUT PROCEDURES**

**STEP 3**  
**LOCKOUT PLACARD PRINTING & APPLICATION**

## WRITTEN LOCKOUT PROGRAM DEVELOPMENT

Written lockout programs need to specify compliance requirements using an efficient, best-practice approach. Through on-site and off-site consultation, our team will assess your workplace to develop a comprehensive lockout program.

## WRITTEN LOCKOUT PROCEDURE DEVELOPMENT

The process begins with an in-depth analysis of the working environment. An evaluation of equipment and the facility layout allows us to efficiently and accurately develop lockout procedures to meet compliance requirements. Experienced technicians capture the details of equipment and create machine-specific lockout isolation procedures. Procedures are distributed in both editable, electronic files and laminated hard copies.

## LOCKOUT COMPLIANCE TRAINING

A compliant lockout program requires ongoing training. The training courses we offer start with general content and are then refined to include company-specific lockout methods and staff responsibilities to help sustain your lockout program. Training materials are provided and presented by our professional instructors at your facility.

Choose from the following:

### AUTHORIZED PERSONNEL

Training for personnel tasked with performing lockout on equipment or for those workers affected by the application of lockout.

### TRAIN THE TRAINER

Provides instruction to develop trainer capabilities within select instructor candidates.

### LOCKOUT PROCEDURE WRITER WORKSHOP

Develop competencies in the preparation and management of equipment-specific written lockout procedures.

## EVALUATION, AUDITING AND ASSESSMENT SERVICES

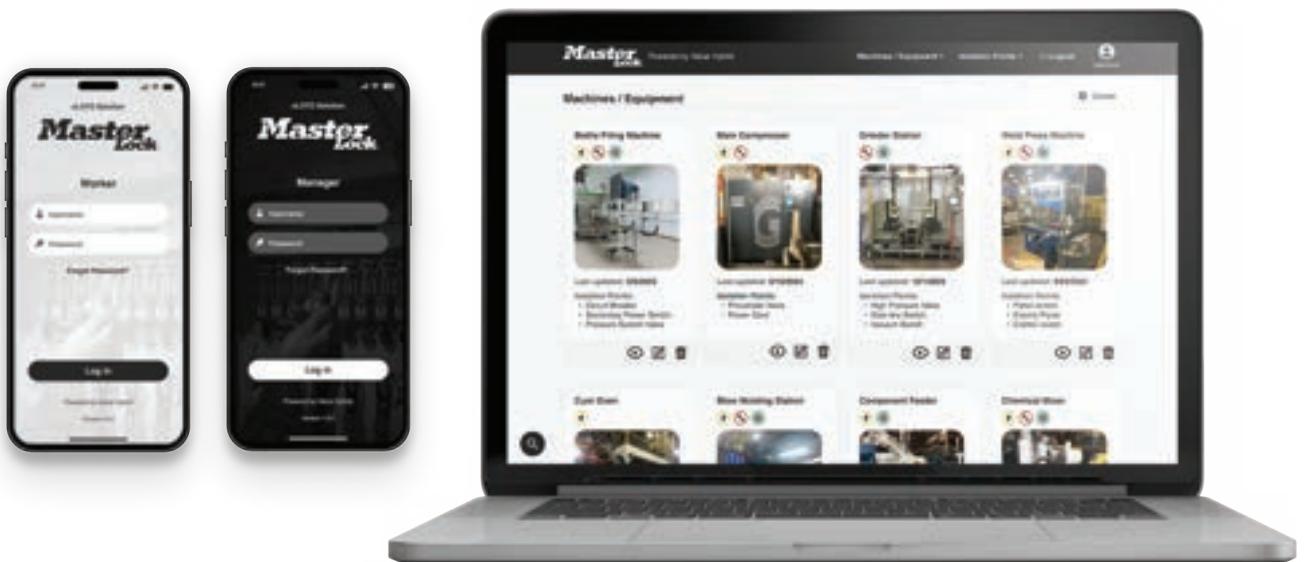
Lockout procedures and the performance of authorized personnel must be validated by objective inspections on an annual basis. Written programs should also be updated periodically to continuously improve real world practices. We provide periodic inspection services for each of these compliance requirements and deliver summary reports of best practice recommendations and corrective action requirements.

## TECHNOLOGY SOLUTIONS

### MASTER LOCK cLOTO™ SOLUTION

cLOTO™ Solution is an innovative combination of cloud software, mobile applications, and safety padlock hardware that digitizes and brings traceability and automation to your lockout program.

- Digitize entire LOTO program
- Improve safety
- Drive accountability



## ARC FLASH & ELECTRICAL SAFETY

Arc Flash Risk Assessments and Electrical Safety Services are also available as part of our safety services. Our goal is to help you become compliant with NFPA 70E® and OSHA 29 CFR 1910 Subpart S and make sure your organization is employing best practices to mitigate the potential of electrical-related injuries and protect your employees.

Drawing on years of experience and expertise, our team of PE-licensed electrical engineers specializing in power system studies and electrical field technicians experienced in data collection, have conducted insightful risk assessments across all industries. Through our thorough and comprehensive approach, we can help support your organization's safety efforts and ensure your plant or facility remains compliant.

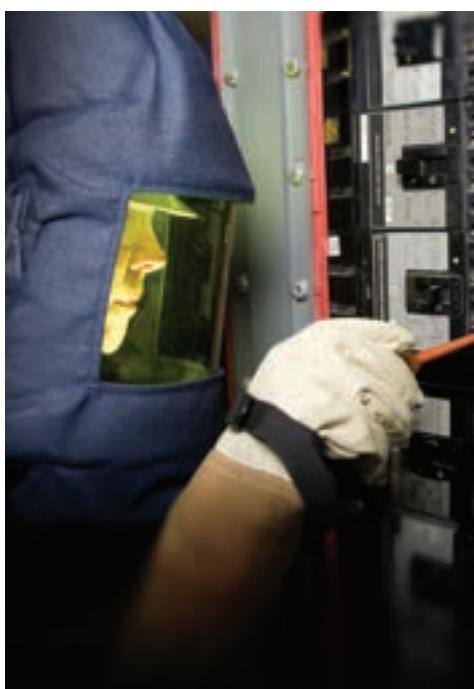
### WRITTEN PROGRAMS

To comply with OSHA 29 CFR 1910 and meet the requirements of NFPA 70E® 110.5, employers must implement a written safety program to protect all employees, contractors and visitors from electrical hazards while on site. Through on-site or off-site consultation, our team will assess your workplace to develop plant or facility-specific topics and language that should be included in the electrical safety program.

### ARC FLASH RISK ASSESSMENTS

The Master Lock Arc Flash Risk Assessment offers a comprehensive understanding of the risks and hazards within your plant or facility. An assessment must be completed before working on or near exposed energized circuits.

The process begins on-site with data collection. Our team of qualified electrical safety specialists inspect all electrical distribution equipment including transformers, motors, breakers and fuses. They also document conductor sizes, lengths and number per phase. This information is used to create an accurate one-line diagram representing the distribution system for the entire plant or facility.



Using ETAP or SKM software, a licensed professional electrical engineer follows the requirements of IEEE 1584 and NFPA 70E® to perform short circuit and protective device coordination studies, calculate the incident energy at each piece of equipment, and identify opportunities to mitigate the risk of arc flash related electrical hazards.

The final deliverables include:

- One-line diagram
- Written report detailing:
  - The incident energy at each piece of equipment
  - Appropriate PPE level and minimum safe working distance
- Recommendations on reducing incident energy and the related PPE levels
- Creation and installation of NFPA 70E®-compliant arc flash labels
- Recommendations for PPE Implementation

## IR THERMOGRAPHY INSPECTION

To help identify potential hazards in the workplace, infrared inspections are utilized to find areas within the electrical system with excess heat. This helps identify problems early so they can be corrected before a component fails, causing damage to the equipment as well as safety hazards and productivity loss.

## TRAINING

To maintain compliance, employee training is required initially and every three years thereafter, or when changes occur to your system. Training courses include hands-on kits and cover electrical codes and standards, electrical safe work practices, and employee responsibilities to help sustain your program. Training materials are provided and presented by our professional instructors at your facility. Available courses include:

**2-DAY NFPA 70E®:** This is a foundational course for qualified workers who work on or around energized equipment.

**2-DAY NFPA 70E® + 1-DAY QUALIFICATION TRAINING:** This course covers the same materials as our 2-day course but also includes the testing and assessing of electrical safety skills using live, finger-safe equipment.

**1-DAY NFPA 70E® REFRESHER:** This course is for employees who have already taken the 2- or 3-day course and need a refresher to meet the 3-year updates required by NFPA 70E®.

**TRAIN THE TRAINER:** This course provides instruction to develop trainer capabilities within select instructor candidates.

## ELECTRICAL SAFETY AUDIT

An electrical safety audit identifies potentially hazardous electrical situations and helps ensure compliance with NEC®, NFPA 70E® and 70B® and OSHA 1910.331-335. Arc flash and electrical safety procedures must be evaluated and validated by objective inspections at least every 3 years. Through our comprehensive 110-point investigation surrounding people, processes, equipment and safe work practices, we identify areas of improvement and provide recommendations on corrective actions.

# MASTER LOCK EMPOWERS PEOPLE WITH THE CONFIDENCE TO LIVE A SAFER, MORE SECURE LIFE.

We help people take on the security and safety responsibilities they face every day. Whether protecting important assets or individuals from harm, people rely on Master Lock to deliver strong, easy-to-use products that are relevant to their needs and lifestyle. Businesses and individuals alike, entrust us to provide peace of mind and confidence in their safety and security.



Stay informed on new products, services, and industry best practices from Master Lock.



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7000-0674 4/25