

# LOCK OUT/TAG OUT

## Energy Isolation

Most industrial accidents are caused by the unexpected energization or start-up of machines or equipment or by the uncontrolled release of energy. Many of these accidents can be prevented by proper LOCKOUT/TAGOUT procedures. OSHA standards 29 CFR 1910.147 & 1910.269 are designed to prevent deaths and serious injuries to maintenance personnel by controlling unauthorized or accidental use of energy. To perform work on industrial equipment safely, you must know how to apply energy isolation.



## LOTO Application and Uses

### STEPS TO SAFELY PERFORM MACHINE MAINTENANCE:

- A disconnect switch, circuit breaker, valve or other energy isolation mechanism is put in the safe or off position.
- A device is often placed over the energy-isolating mechanism to hold it in the safe position.
- A lock is attached so that the equipment can't be energized. In a TAGOUT, the energy-isolating device is placed in the safe position and a written warning is attached to it.

### APPLY LOTO FOR SAFE SITUATIONS:

- When you must remove or bypass a guard or other safety device.
- When you must place any part of your body where you could be caught by moving machinery.
- When repairing electrical circuits.
- When cleaning or oiling machinery with moving parts.
- When clearing jammed mechanisms.



**REMEMBER!** Locks and Tags by themselves do not de-energize equipment. Attach them only after the machinery has been isolated from its energy sources.





CB04

### North C-SAFE – Pole Lockout

- Rigid, durable plastic construction secures circuit breaker and eliminates accidental start-ups
- Available in single or double pole circuit breaker lockout

SKU	Description
CB01	Single pole lockout, requires a switch breaker with a recessed hole
CB02	Double pole lockout, requires breaker to be connected with a cross bar
CB03	Single pole lockout, does not require a switch breaker with a recessed hole
CB04	Double pole circuit breaker lockout



CBLOK06R

### North Multi-Purpose Cable Lockouts

- Flexible design allows devices to be quickly and safely locked or immobilized
- For use on single or multiple gate valve and circuit breaker boxes
- Also able to immobilize large or awkwardly shaped machines and mechanisms

SKU	Description
CBLOK06R	Cable Lockout Device with 6-ft Cable
CBLOK10R	Cable Lockout Device with 10-ft Cable
CBLO6	6-ft Replacement Cable
CBL10	10-ft Replacement Cable



LP110

### North E-SAFE – Electrical Plug Lockout

- Completely encloses the plug from any accidental reconnection
- Resists hot or cold temperatures and has sliding closure and integrated multiple lockout

SKU	Width	Inside Height	Inside Width	Lock Hole	Cable Hole
LP110	3.250" (82 mm)	1.750" (44.5 mm)	1.750" (44.5 mm)	0.312" (8 mm) dia	0.500" (12 mm) dia
LP550	12" (305 mm)	2.750" (70 mm)	4.000" (102 mm)	0.375" (9.5 mm) dia	1.000" (25 mm) dia



MS86

### North M-SAFE – Safety Lockout Hasps

- Extremely tough and durable

SKU	Description
MS01	Bright Red color, dielectric holds 6 padlocks
666RD	5 1/4" length, Dual scissor jaw opening: 1 3/4" & 3/4", holds 6 padlocks
MS86	4 3/8" length, 1" jaw opening, holds 6 padlocks
R60ML	4 3/8" length, 1" jaw opening, holds 6 padlocks



CBU01

### North Universal Circuit Breaker Lockout

- Designed to fit most single or double electrical circuit breakers

SKU	Description
CBU01	Universal circuit breaker lockout, 6/pkg



### North V-SAFE – Valve Covers

- Made of strong polypropylene plastic
- Lock hole size of 0.375" (9.5 mm) (VS02 is 0.312" [8 mm])
- Fully dielectric
- Highly resistant to cracking and abrasions
- Resistant to extreme temperature changes from -50°F (-46°C) to 360°F (183°C)
- Available in Red, Yellow, Blue and Green



VS04 in various colors

SKU	Inside Diam	Inside Height	Outside Diam	Outside Height	Valve Handle Size
VS02	2.75" (70 mm)	1.25" (32 mm)	3.00" (76 mm)	1.50" (38 mm) dia	1" - 2.5" (25-63 mm)
VS04	5.00" (130 mm)	1.25" (32 mm)	5.50" (140 mm)	1.75" (44 mm) dia	2.5" - 5" (63-130 mm)
VS06	6.50" (170 mm)	1.50" (70 mm)	7.00" (77 mm)	2.00" (50 mm) dia	5" - 6.5" (130-170 mm)
VS09	10.00" (305 mm)	2.00" (50 mm)	10.50" (267 mm)	2.50" (63 mm) dia	6.5" - 10" (170-305 mm)
VS13	14.00" (355 mm)	2.50" (63 mm)	14.50" (368 mm)	3.00" (73.8 mm) dia	10" - 14" (305-355 mm)

### North B-SAFE – Valve Lockout

- Strong polypropylene plastic
- Highly resistant to solvents and other chemical products
- Fits over ball valves in different sizes
- Resistant to temperature changes



BS01

SKU	Width	Height	Length of Handle	Lock Hole
BS01	3.100" (80 mm)	3.250" (82 mm)	5.375" - 7.500" (135 -190 mm)	0.312" (8 mm) dia
BS02	3.750" (95 mm)	5.000" (125 mm)	7.500" - 10.000" (190 -250 mm)	0.312" (8 mm) dia
BS03	4.000" (95 mm)	7.450" (125 mm)	12.000" - 17.500" (190 -250 mm)	0.312" (8 mm) dia

#### Butterfly Valve Lockout

BS04	4.000" (102 mm)	2.750" (70 mm)	12.000" (305 mm)	0.375" (8 mm)
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#### Colors Recommended in ANSI Z353.1

- Red = Fire Quenching Materials (Ex. Halon)
- Yellow = Materials Inherently Hazardous (Ex. Propane Gas)
- Blue = Gases of Inherently Low Hazard (Ex. Argon)
- Green = Liquids of Inherently Low Hazard (Ex. Mill Water)

Color options not available in every SKU



**North Lockout/Tagout (LOTO) Stations**

- Designed to withstand harsh conditions
- Made of double molded polystyrene with plastic or metal hanging hooks for locks and lockout hasps

**Small Station – 18” X 24”**



LSE101F

SKU	QTY	Contents
LSE101	1 ea	Panel only
LSE101F	1 ea	LSE101 Lockout Panel
	2 ea	VS02 V-Safe Lockout 2"
	1 ea	VS04 V-Safe Lockout 4"
	1 ea	VS06 V-Safe Lockout 6"
	1 ea	BS01 B-Safe Lockout
	2 ea	LP110 E-Safe Lockout 110-220 volts
	1 ea	LP550 E-Safe Lockout 220-550 volts
	1 ea	MS86 M-Safe metal hasp
	4 ea	MS01 M-Safe nylon hasp
	1 ea	ELA290 "DO NOT OPERATE" tags/25
	1 ea	ELA255 "DO NOT OPEN" tags/25
	1 ea	3D Master Lock

**North Large Station – 24” X 35”**

- Designed to make your locks, tags and lockout devices easy to find and use
- Stands up to tough work conditions



LSE102F

SKU	QTY	Contents
LSE102	1 ea	Panel only
LSE102F	1 ea	LSE102 Lockout Panel
	2 ea	VS02 V-Safe Lockout 2"
	1 ea	VS04 V-Safe Lockout 4"
	1 ea	VS06 V-Safe Lockout 6"
	1 ea	VS09 V-Safe Lockout 9"
	1 ea	BS01 B-Safe Lockout
	1 ea	BS02 B-Safe Lockout
	2 ea	LP110 E-Safe Lockout 110-220 volts
	1 ea	LP550 E-Safe Lockout 220-550 volts
	2 ea	MS86 M-Safe Metal Hasp
	6 ea	MS01 M-Safe Nylon Hasp
	1 ea	ELA250 "DO NOT START" tags/25
	1 ea	ELA290 "DO NOT OPERATE" tags/25
	1 ea	ELA255 "DO NOT OPEN" tags/25
	2 ea	3D Master Lock
	2 ea	3DLF Master Lock



LOCKOUT STATIONS



LSE103F

**North Personal Lockout Station – 11” x 14”**

- High visibility to find lockout personal station
- Recommended industries are manufacturing, mining, municipal services, oil/gas and utilities
- Features plastic or metal hanging hooks for locks and lockout hasps

SKU	QTY	Contents
LSE103	1 ea	Panel only
LSE103F	4 ea	3D Master Lock, blue bumper padlock
	1 pk	ELA290 "DO NOT OPERATE" tags/25



LSE104F

**North Four Lockout Station – 11” x 14”**

- Designed to withstand harsh conditions
- Made of double molded polystyrene with plastic or metal hanging hooks for locks and lockout hasps

SKU	QTY	Contents
LSE104	1 ea	Panel only
LSE104F	4 ea	3D Master Lock, blue bumper padlock
	1 pk	ELA290 "DO NOT OPERATE" tags/25
	3 ea	R60 ML 1" Safety Lockout Hasps



LSE105F

**North Ten Lockout Station – 14” x 21”**

- Station is constructed of double molded polystyrene with hooks for locks and lockout hasps
- High visibility that makes your LOTO equipment easy to find and use

SKU	QTY	Contents
LSE105	1 ea	Panel only
LSE105F	10 ea	3D Master Lock, blue bumper padlock
	2 pk	ELA290 "DO NOT OPERATE" tags/25
	3 ea	R60ML 1" Safety Lockout Hasp



LSE106F

**North Departmental Lockout Station – 21” x 29”**

- Polystyrene wall-mounted LOTO supply center is water resistant
- Twenty metal hooks for padlocks, six steel lockout hasps and 100 styrene lockout tags

SKU	QTY	Contents
LSE106	1 ea	Panel only
LSE106F	20 ea	3D Master Lock, blue bumper padlock
	4 pk	ELA290 "DO NOT OPERATE" tags/25
	6 ea	R60 ML 1" Safety Lockout Hasps

