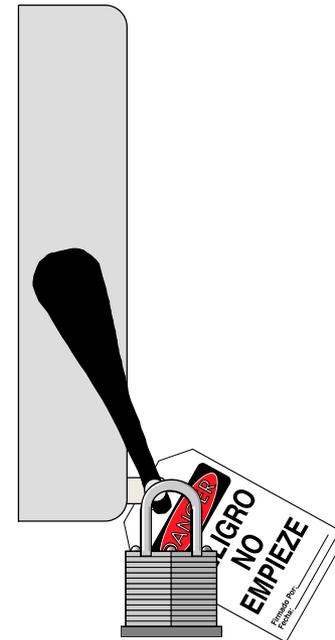
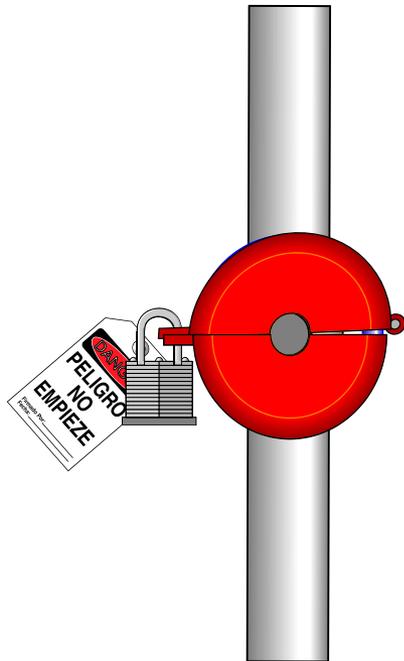


# Hazardous Energy Control

(Lockout / Tagout)

# Control de Energía Peligrosa

(Bloqueo y Etiquetado)



**Welcome!**

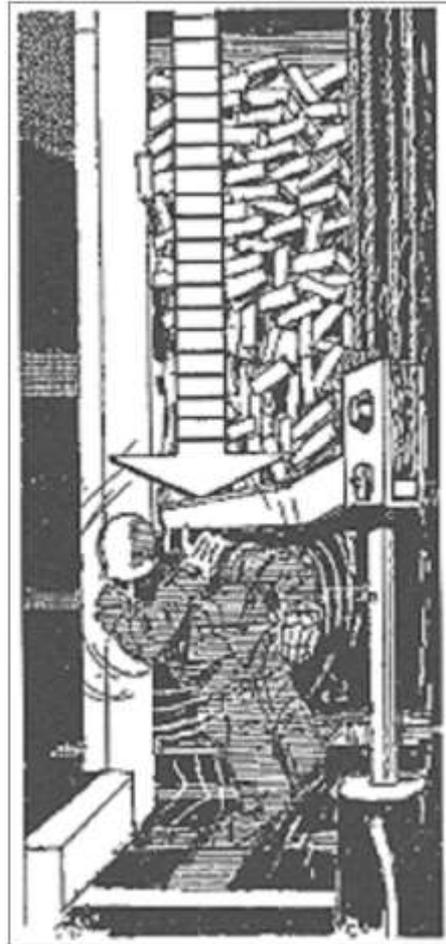
**¡Bienvenidos!**

**The reason**

**La razón**

**The goal**

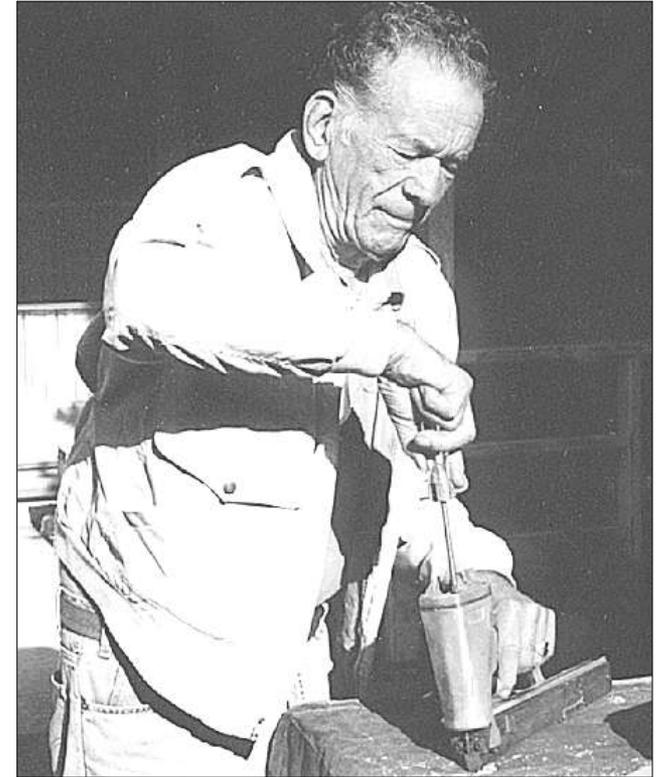
**La meta**



# Authorized employees



# Empleados autorizados



# Affected employees



# Empleados afectados



# Other Workers

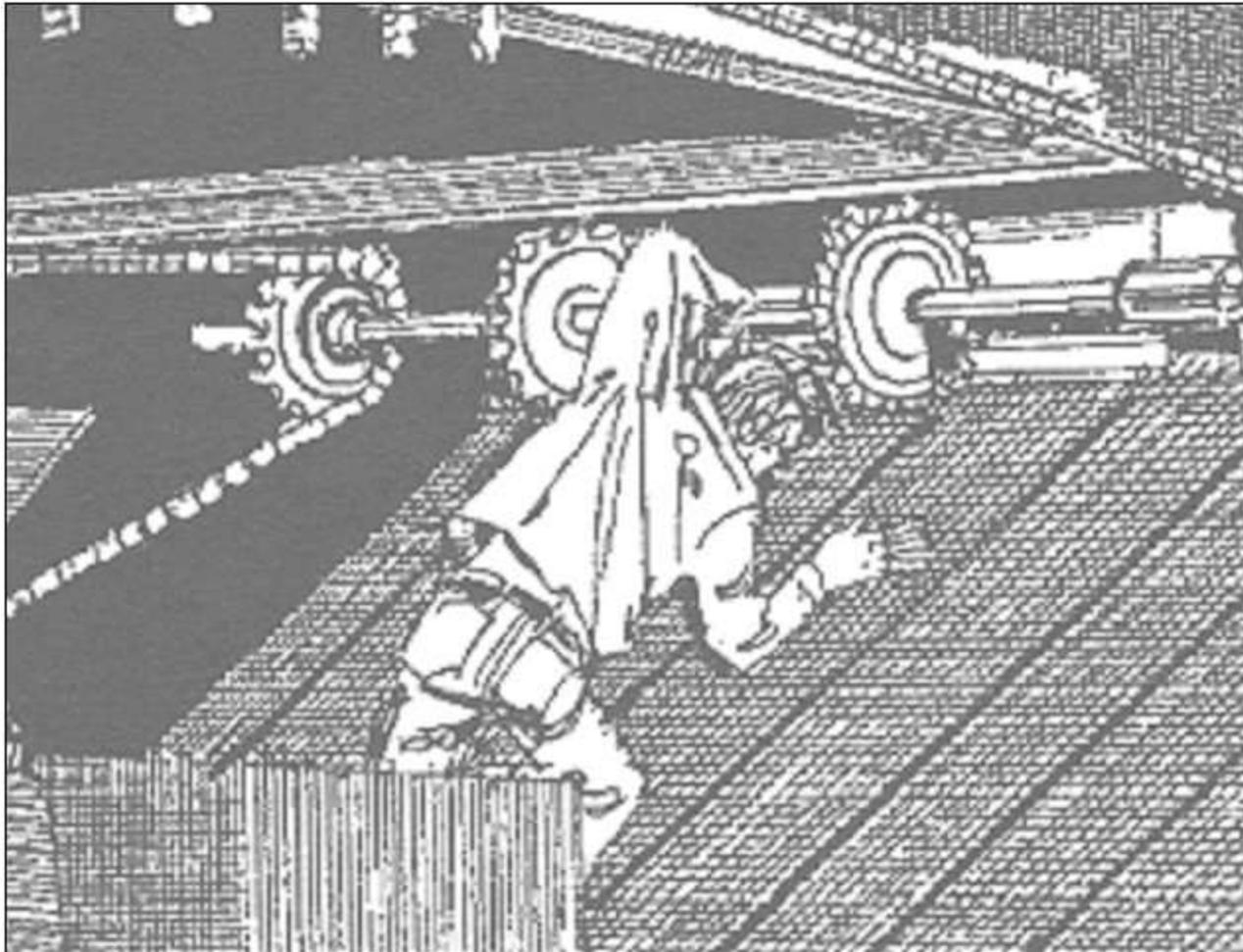


# Demás Empleados

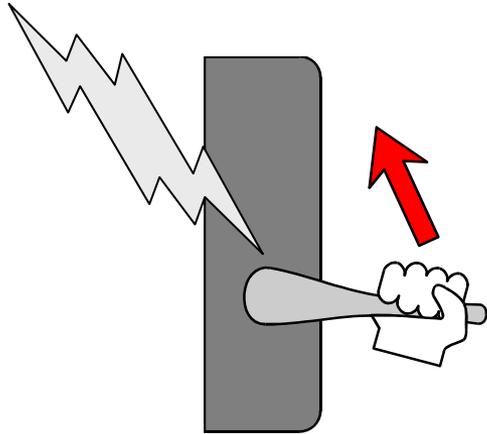


# The Unexpected

# Lo Repentino



# Energy sources



# Fuentes de energía

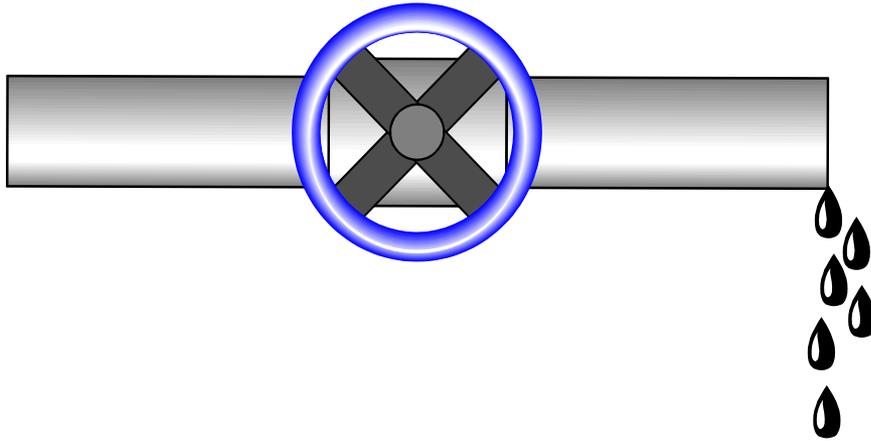


# Energy sources

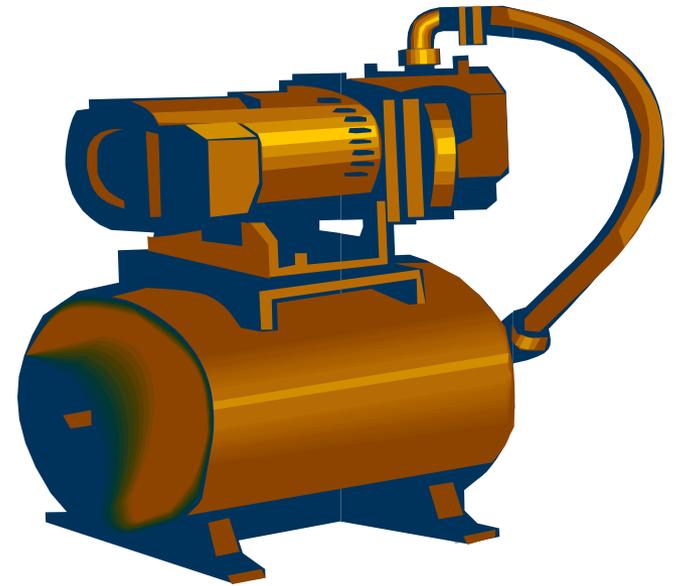
# Fuentes de energía



# Energy sources



# Fuentes de energía



# Zero Energy State

**Turned off**

**Isolated**

**Disconnected**

**Purged**

**Enclosed**

**Immobilized**

**Blocked**

**Obstructed**

# Energía en Zero

**Apagadas**

**Aisladas**

**Desconectadas**

**Purgadas**

**Encerradas**

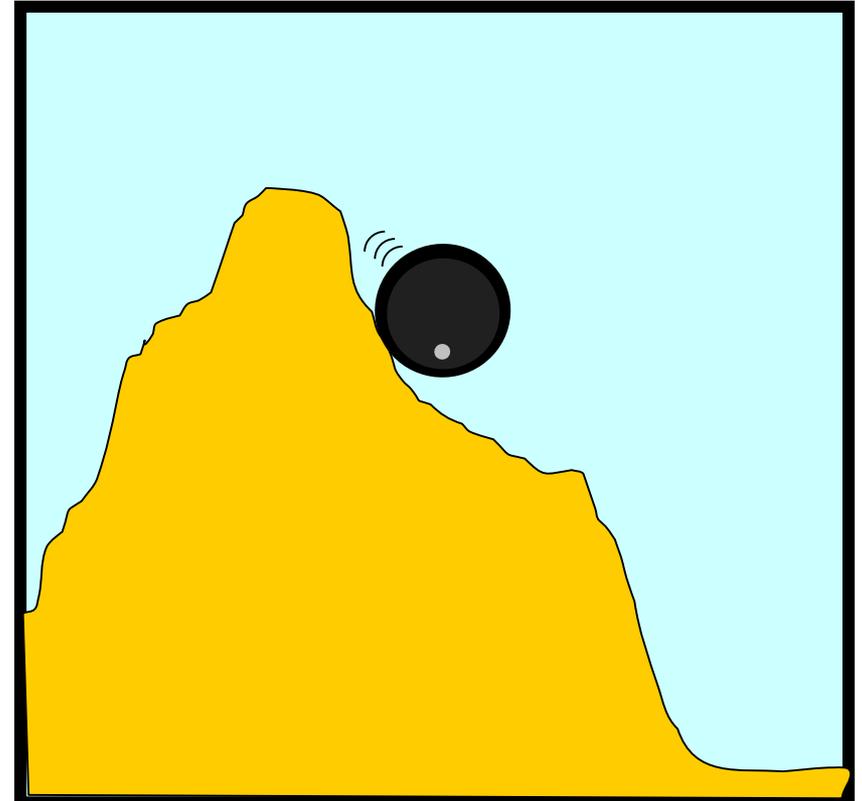
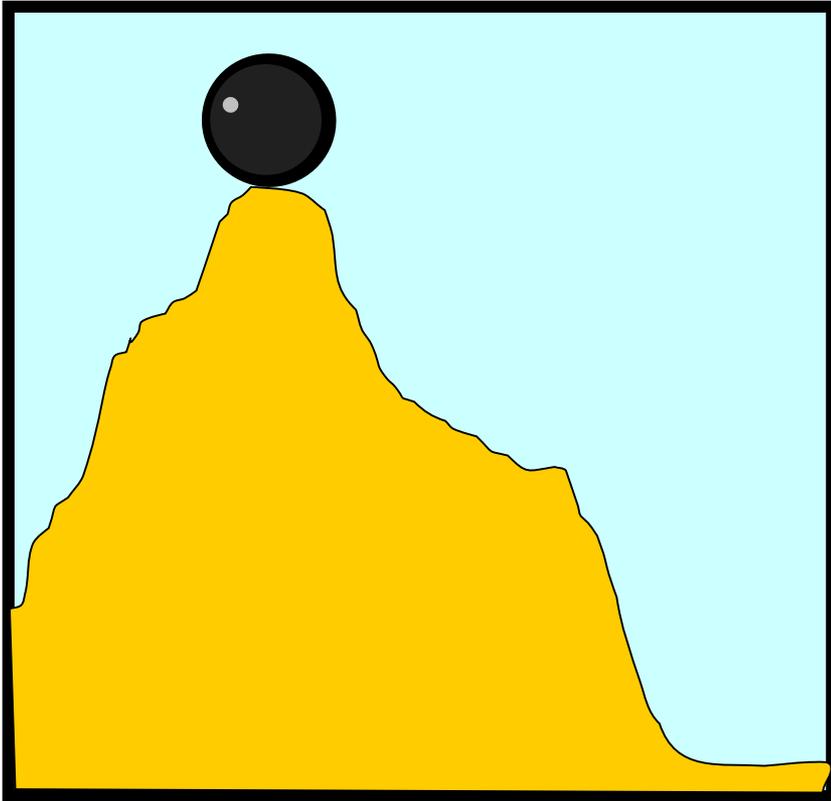
**Inmovilizadas**

**Bloqueadas**

**Obstruidas**

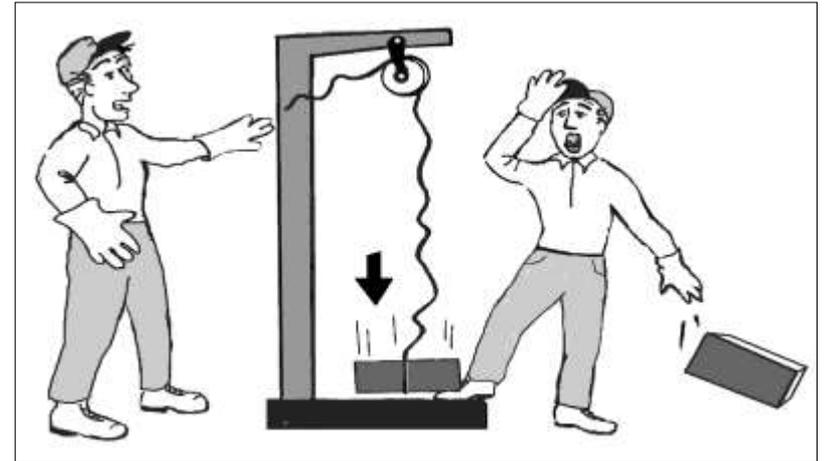
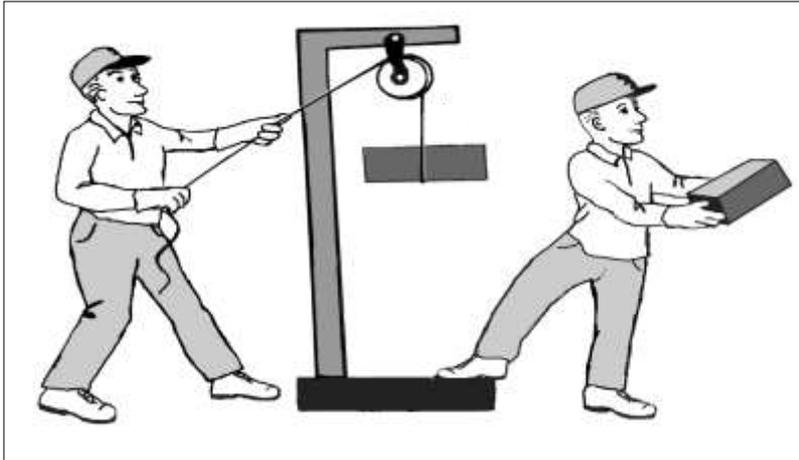
# Two types of energy

# Dos tipos de energía



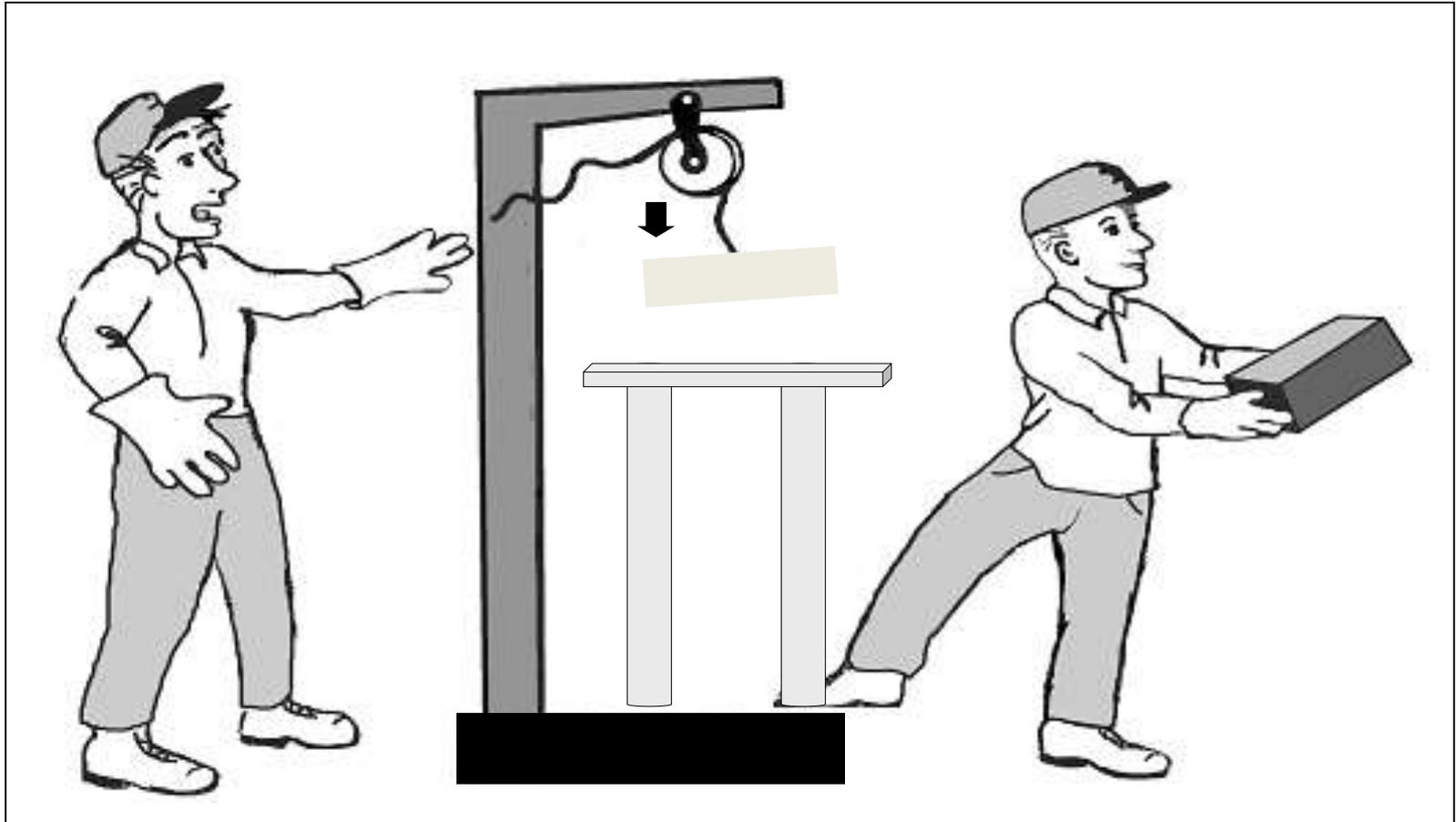
# Two types of energy

# Dos tipos de energía



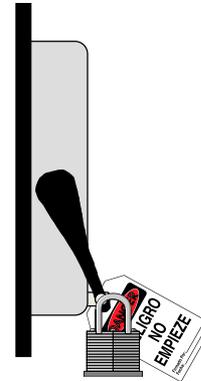
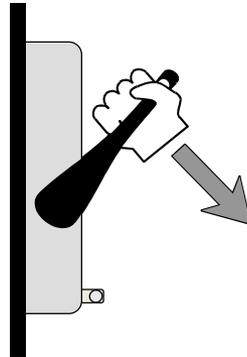
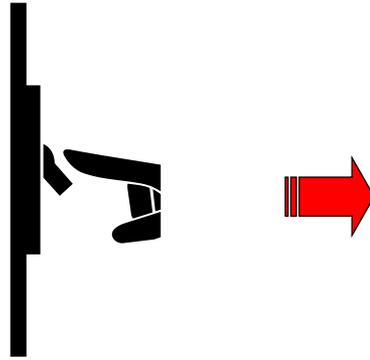
# Block

# Bloquear



# Turn off or isolate?

# ¿Apagar o aislar?



# Service and maintenance

Authorized

# Servicio y mantenimiento

Autorizado



**Service and  
maintenance  
during normal  
operations**

**Servicio y  
mantenimiento  
durante operación  
normal**





# 1

**PREPARE**



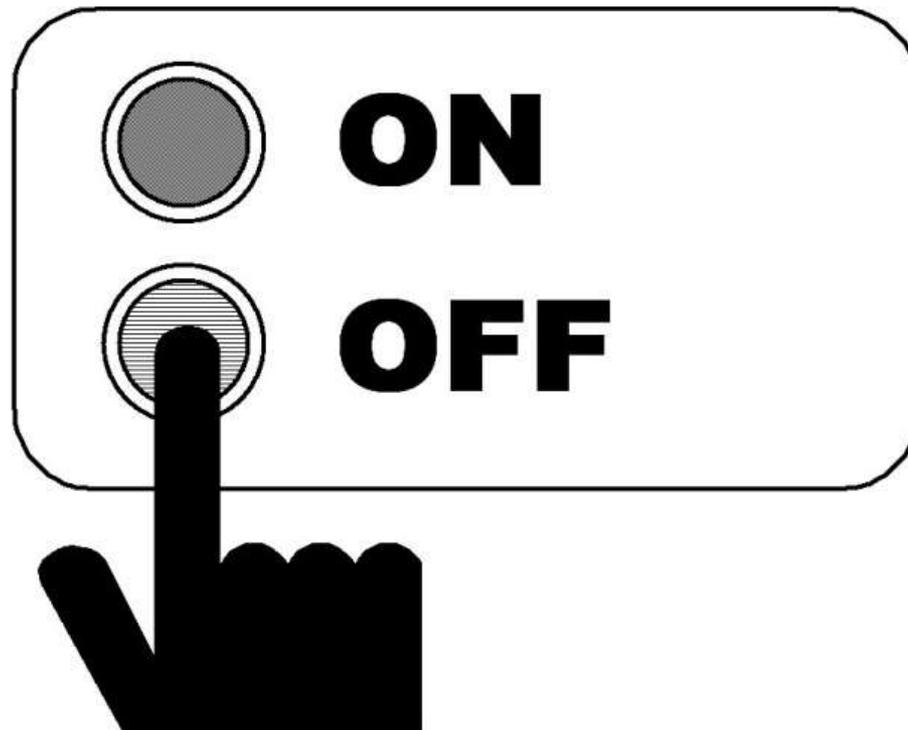
**PREPARAR**



2

TURN OFF

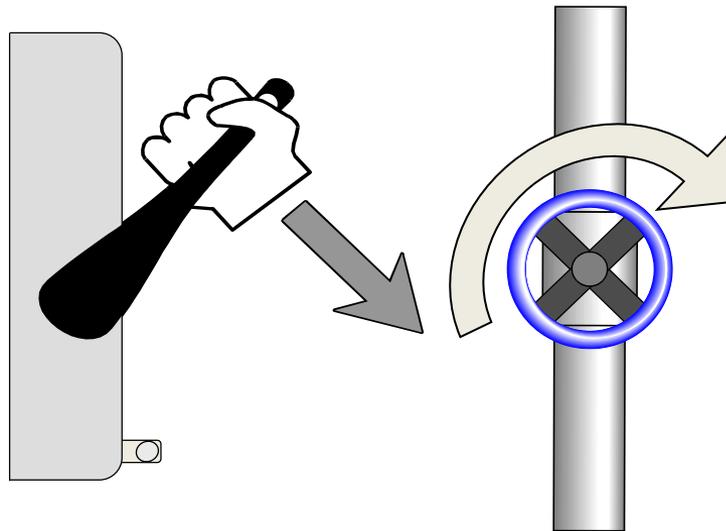
AGAGAR



# 3

**ISOLATE AND BLOCK**

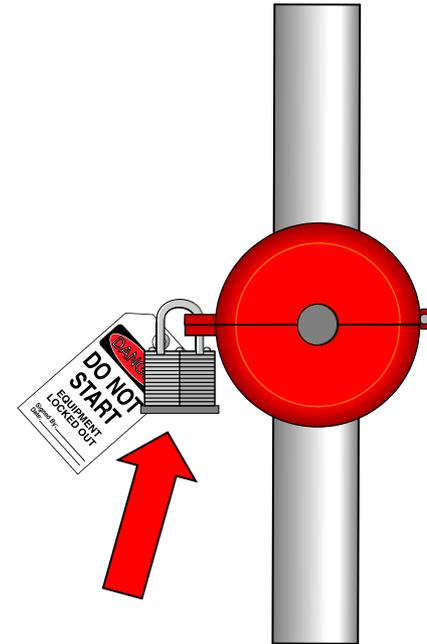
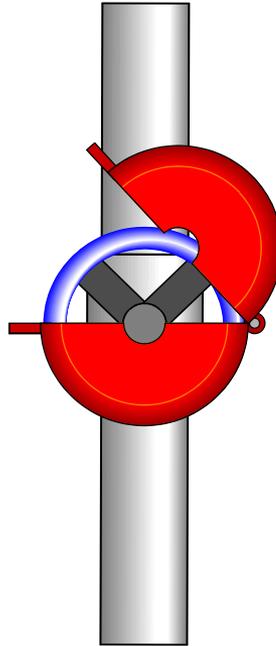
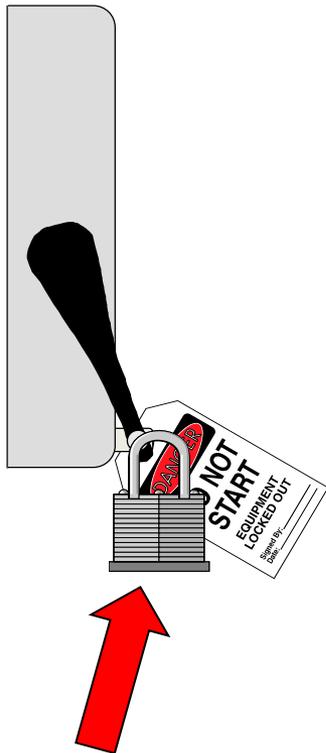
**AISLAR Y BLOQUEAR**



# 4

## LOCK OUT DEVICES

## DISPOSITIVOS DE BLOQUEO



# 4

## PLACING TAGS

## COLOCANDO LAS ETIQUETAS



# 5

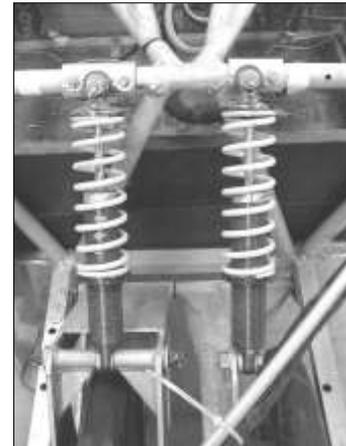
DISSIPATE

LIBERACIÓN

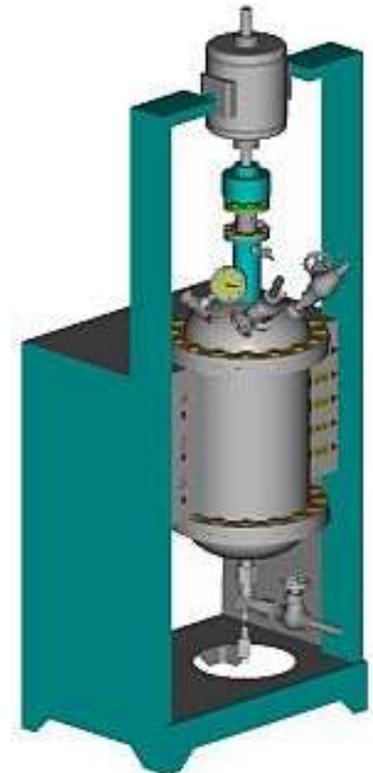


# 5

DISSIPATE



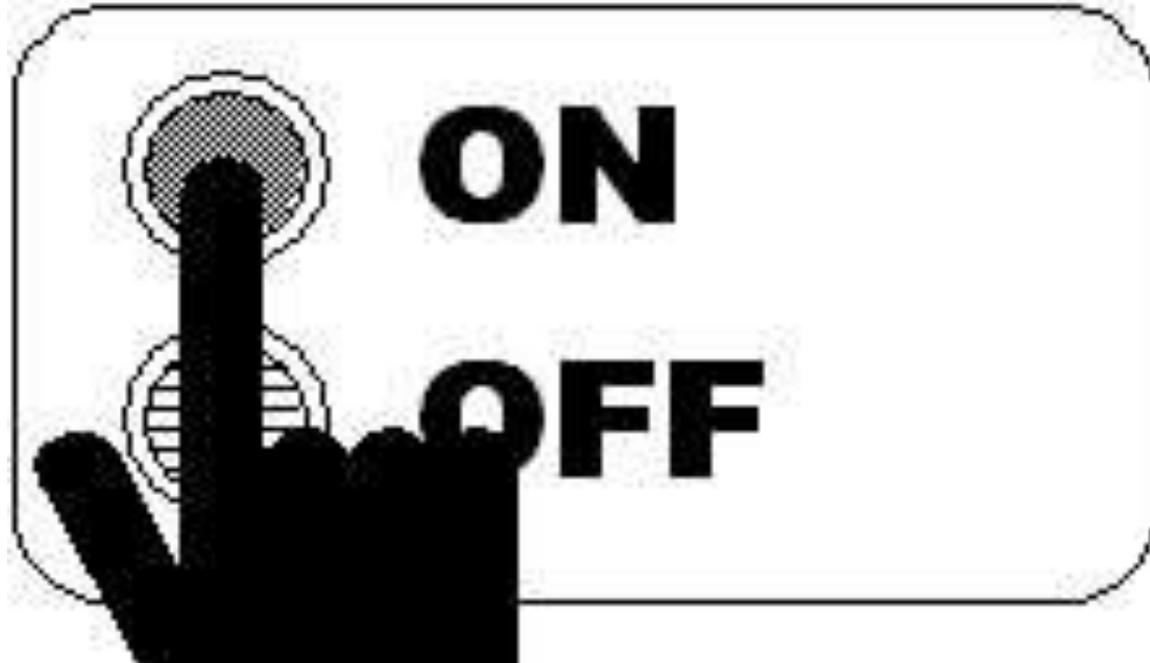
DISIPAR



# 6

VERIFY

COMPROBAR



## **Removing locks and tags**

- 1) INSPECT THE WORK**
- 2) TELL COWORKERS**
- 3) CHECK THE EQUIPMENT**
- 4) REMOVE THE LOCKOUT**
- 5) RE-ENERGIZE**

## **Quitando los seguros y etiquetas**

- 1) INSPECCIONAR EL TRABAJO**
- 2) DECIRLE A LOS  
TRABAJADORES**
- 3) VERIFICAR LOS CONTROLES**
- 4) QUITAR EL DISPOSITIVO DE  
BLOQUEO**
- 5) VOLVER A PRENDER**

## **Testing and adjusting**

- 1) Remove all tools and materials near the equipment.**
- 2) Make sure no workers are near the equipment.**
- 3) Remove the lockout or tagout devices.**
- 4) Energize the equipment.**
- 5) Turn off everything and repeat the energy control steps.**

## **Probando y ajustando**

- 1) Quite todas las herramientas y materiales cerca del equipo.**
- 2) Asegúrese que no hay trabajadores cerca del equipo.**
- 3) Quite los seguros y las etiquetas.**
- 4) Prenda la energía y pruebe y ajuste.**
- 5) Apague todo y repita los pasos de control de energía.**

# Group lock out

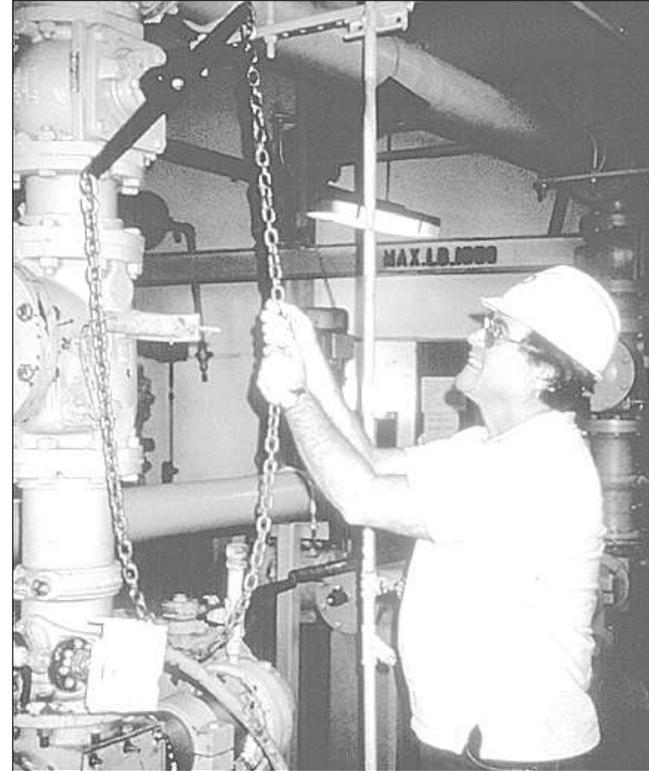
# Bloqueo en grupo



# Training



# Adiestramiento



# Lockout devices



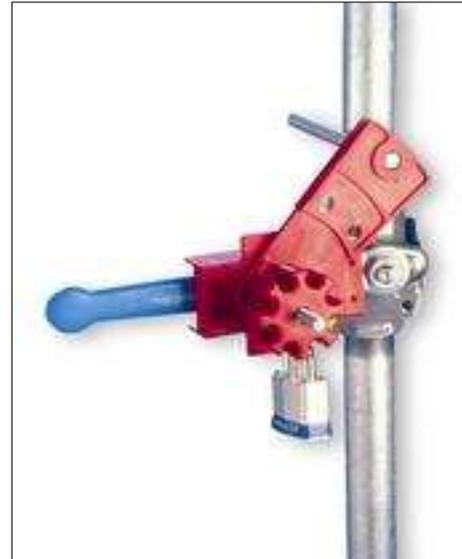
# Dispositivos de bloqueo



# Lockout devices



# Dispositivos de bloqueo



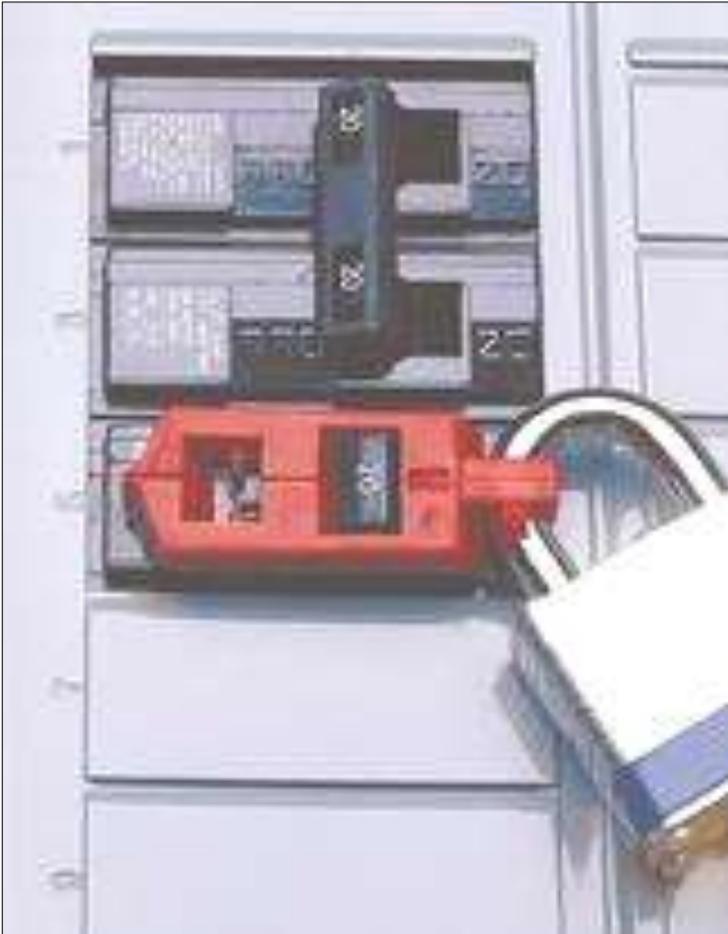
# Lockout devices

# Dispositivos de bloqueo



# Lockout devices

# Dispositivos de bloqueo



# Lockout devices

# Dispositivos de bloqueo



*Thank you!      ¡Gracias!*