

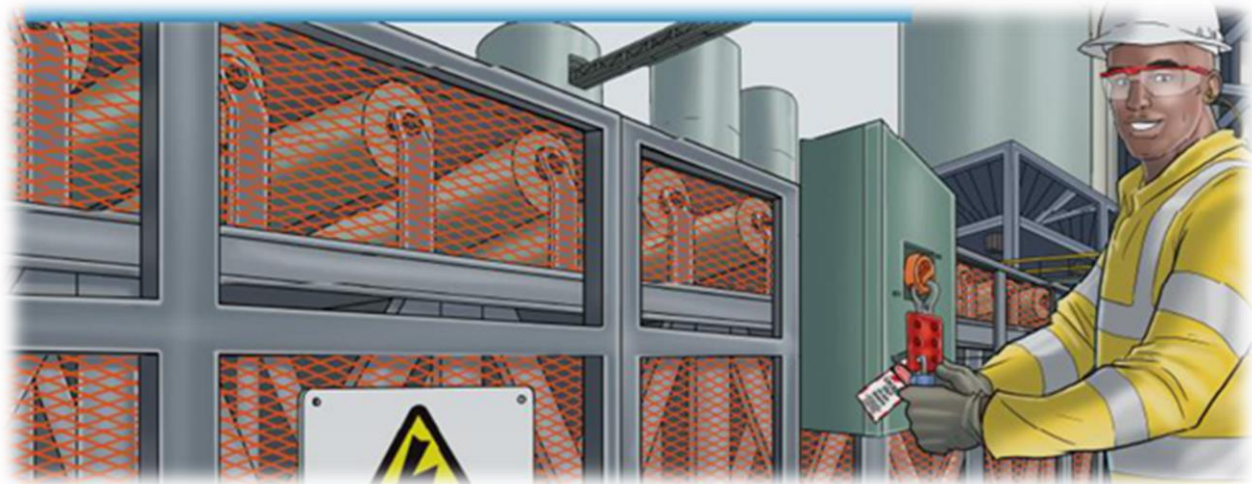
TOOLBOX TALKS

Energy Isolation (EI)

What is Energy Isolation?

Modern machinery can contain many hazards to workers from electrical, mechanical, pneumatic, or hydraulic energy sources. Disconnecting or making the equipment safe to work on involves the removal of all energy sources and is known as isolation.

Lock-out, Tag-out, Test-out refers to the safety procedure used in industry and research settings to insure that dangerous machines have been properly shut-down and are incapable of being started up again prior to the completion of maintenance or servicing work. It requires that all hazardous energy sources have been (1) identified (2) isolated and (3) rendered inoperative to prevent the release of potentially hazardous energy prior to the start of any repair or maintenance procedure. This is accomplished through the locking and tagging of all energy sources. Some common forms of energy isolation include electrical circuit breakers, disconnect switches, ball or gate valves, blind flanges, and blocks. Push buttons, e-stops, selector switches and control panels are not considered proper points for energy isolation. Once isolation and tagging are completed, the testing of the isolation takes place by trying to start the equipment. This is done to confirm that all energy sources have been locked out



DISCUSSION

Questions from staff

Comments by staff

Suggestions from staff

TOOLBOX TALK ATTENDANCE REGISTER

Date		Facilitator Name:	
Site/Department:		Facilitator Signature:	
Topic:			

The information in this document had been explained to me and I understand the content

Emp Name	Emp No	Signature	Emp Name	Emp No	Signature