

Introduction

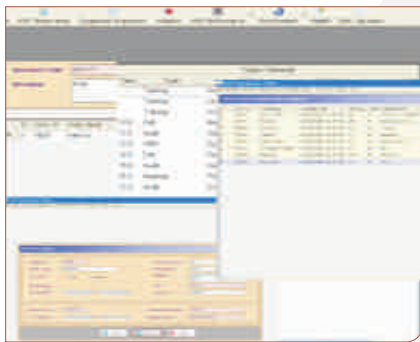
Most industrial accidents are caused by the unexpected energization or start up of machines or equipment or by the uncontrolled release of energy. Many of these accidents can be prevented by proper LOCKOUT/TAGOUT procedures. OSHA's LOCKOUT/TAGOUT standard, 29 CFR & 1910.147 & 1910.269 are designed to prevent needless deaths and serious injuries to service and maintenance personnel by controlling unauthorized or accidental use of energy.

Lockout Tagout (LOTO) Software helps to implement procedure and manage resources in effective way, eliminating the human error with increased information availability for each equipment and isolation points. It is a full package with in-house tag printing facility, increases productivity and hence overall cost reduction.

LOTO Software improves the accuracy and manageability of large work scopes and outages, and maximizes plant availability by using Master Isolation Statements and Outage Management facilities to reduce the time taken to both isolate and restore plant safely.

This software can be seamlessly integrated with Permit To Work system with mechanical isolation and/or electrical isolation certificates.

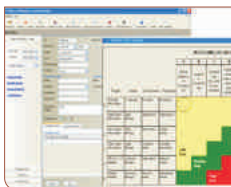
Advantages



- ▶ Pre-planned standard and total equipment & isolation lists provide safe and rapid access to carefully prepared and planned
- ▶ Inclusion of hierarchical & cross referenced/dependent isolation points
- ▶ Instant tag printing with templates and standard signs while lock issued
- ▶ Consideration of multiple agencies
- ▶ Single click reports with search engine facility
- ▶ An audit trail is created from the moment a lockout/tagout is requested to the moment it is archived
- ▶ Analysis over usage of gadgets & locks to help timely basis purchase

Modules

→ One Time Record Generation



1. Master records of unit, area, equipments, isolation points, authorized personals
2. Cross referencing between required records (eg. Equipment – Isolation Point)
3. Procedure document generation/attachment for each type of isolation point (Attachment option of startup and shutdown procedures for equipments & isolation points with actual photographs/drawings)
4. Customization of tag for each type of Isolation point

→ Tag Printing

While issuing the lock and gadget, Tag can be printed according to template with following details;

1. Template of Tag based on isolation point type
2. Isolation point No
3. Unique Tag No (Two tags printed with two different unique id)
4. Date of apply
5. Isolation officer name & contact no
6. Certificate Issuing authority name & contact no

→ Cross reference checking with other permits issued on same equipment/isolation point considering multiple agencies

→ Electronic log book shows issued or active lockouts and tagouts. When the lockout and tagout is completed or removed, the data is archived

→ Inventory of locks and gadgets with barcode

1. Issue of locks & gadget while isolation
2. Issue of locks & gadget while isolation
3. Record faulty locks & gadgets
4. Stock report of locks and gadgets

→ Barcode can be included in tag to reduce human error while tag matching at time of de-isolation confirmation.

→ Track isolation point/ equipment using search engine

Search engine refers to the facility which provides quick access to stored data of equipments, isolation points such as current status (isolated/ de-isolated), startup & shutdown procedure and log of maintenance.

→ Dash board reports for current site status

1. On going isolated equipments
2. Under testing equipments
3. Planned de-isolation of equipments
4. Authorized personal contact numbers for ease of communication

JHA data libraries update facility, only accessible to authorized users of Permit To Work software.