



### Control

Rule-based structure within a defined authorization process and flexible analysis functions deliver 'real-time' management information

### Co-ordination

Full view of the entire work scenario to enable the in charge for effective Co-ordination

### Communication

Central information, faster communication, Confirmed communication

### Productivity

Easy creation of a permit, bringing cost benefit by replacing cumbersome paper-based system

## Designed for use within

Oil & Gas, Power, Chemical, Facility / Utility, Construction, Pharmaceuticals, Steel Industries, Offshore Complexes and others

# Introduction

e-PTW software proves to be a very useful and convenient tool to establish Control, Co-ordination and Communication following correct work sequences among the participating agencies through computer system, facilitating:

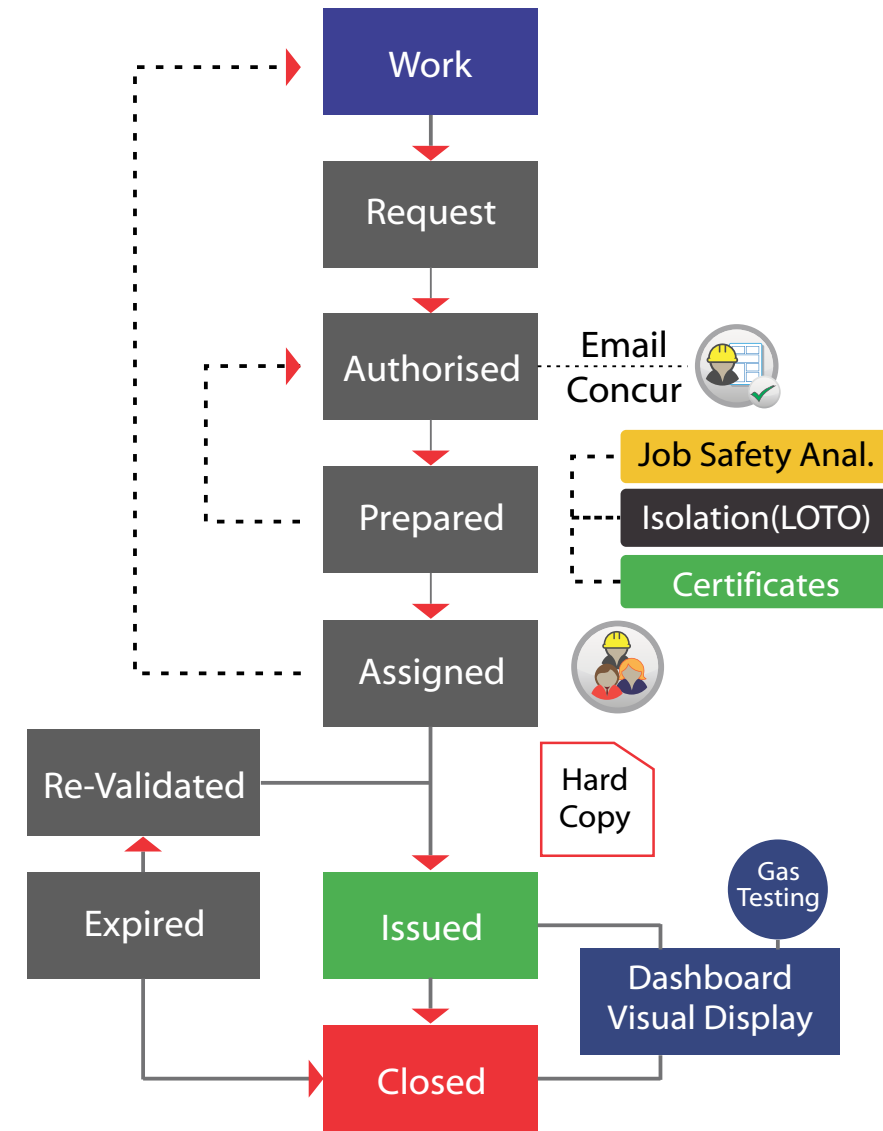
- Full view of the entire work scenario to enable the in-charge to take correct and fast decision,
- Right, definite and quick communication,
- Smooth flow of work, saving time, avoiding lengthy paper work,
- Easy & quick retrieval data bank
- Application of Job Hazard Analysis and Isolation Lockout Tagout procedures

ASK-EHS has successfully designed custom-made module and implemented the above required system in India & abroad which are excellent in working to the entire satisfaction of the clients.

# Why@-PTW?

- For lengthy, intricate, and voluminous jobs engaging large number of agencies and work-force and tackling variety of hazardous work situations.
- Application of lockout-tagout isolation systems, it becomes a gigantic work to run about, contact people personally, take their clearances, making entries on the forms with signature etc.
- When the control centers are located at far distances and in tough geographical terrain, exercising physical control becomes extremely tedious and time consuming.
- If any reference is needed with previous jobs undertaken earlier, one has to search the same physically from maintained library of documents.
- The authority in command is faced with large number of PTW applications for various locations of the complex and has to scrutinize among them, taking into consideration the entire work process.

*"Make it Safe. Make it Happen"*



Everybody understands simplicity

# Permit Flow

e-PTW controls the sequence of status changes the permit passes through the various stages of the flow engine. The software provides facility to authorized parties to mention all necessary procedures, isolations and authorization which are completed before moving to the next stage in the sequence.

e-PTW manages the entire permit process, including: granting permission, preparing & approving a permit, issuing it for work to commence, testing it and closing it following job completion.

# State Examples

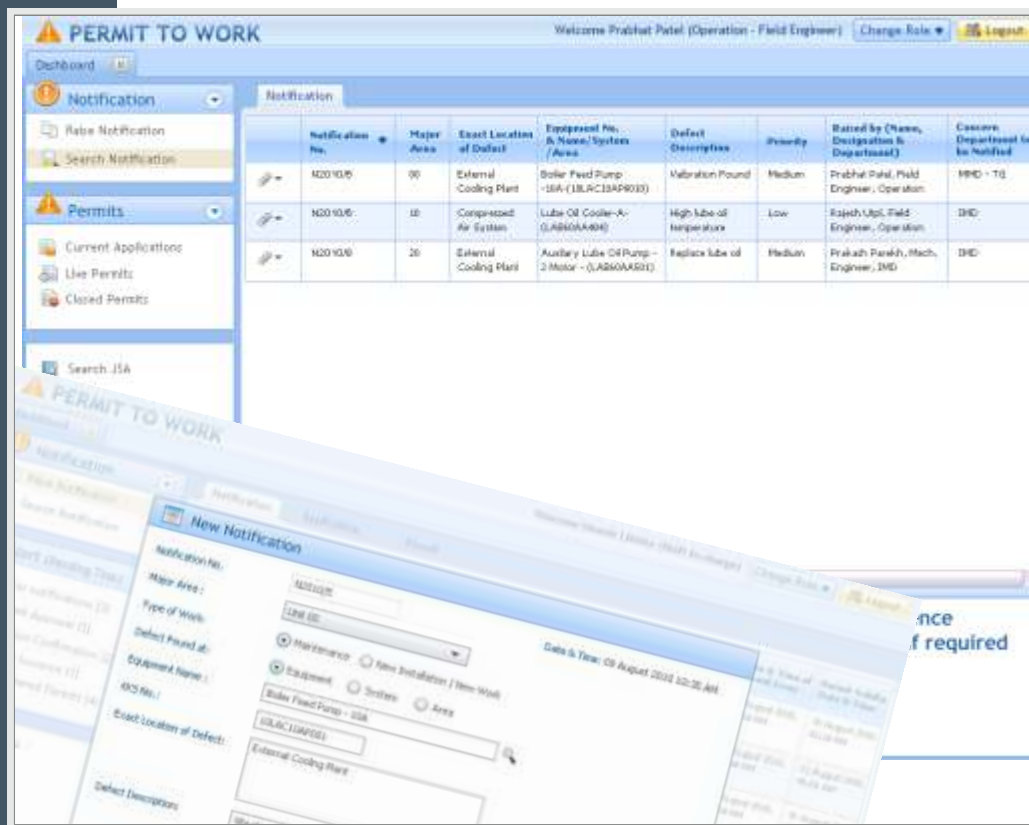
- Raised
- Submitted
- Approved
- Available
- Issued
- Surrendered
- Closed
- Cancelled
- On Hold
- History

## Permit Control

Management of permit to work documents and certificates. System supports the full cycle of Permits and Certificates and comes with a customized workflow to validate steps to promote safe working practices.

## Featuring

- Notification generation
- Permit creation
- Role & Rule controlled
- Awareness & Acknowledgment
- Concurrence & Authorization
- Email notification
- Issue & Surrender control
- Re-issue control
- Issue for testing
- Valid to & Expiry
- Surprise inspection by safety team
- Full audit trail & History
- Gas testing
- Related safety documents
- Attachment



## Type of Documents

- Risk Assessment (JHA, JSA, TRA)
- Hot work permit
- Cold work permit
- Isolation certificate
- Confined space certificate
- Radiography certificate
- Scaffolding certificate
- Dive certificate
- Excavation certificate
- Gas testing records

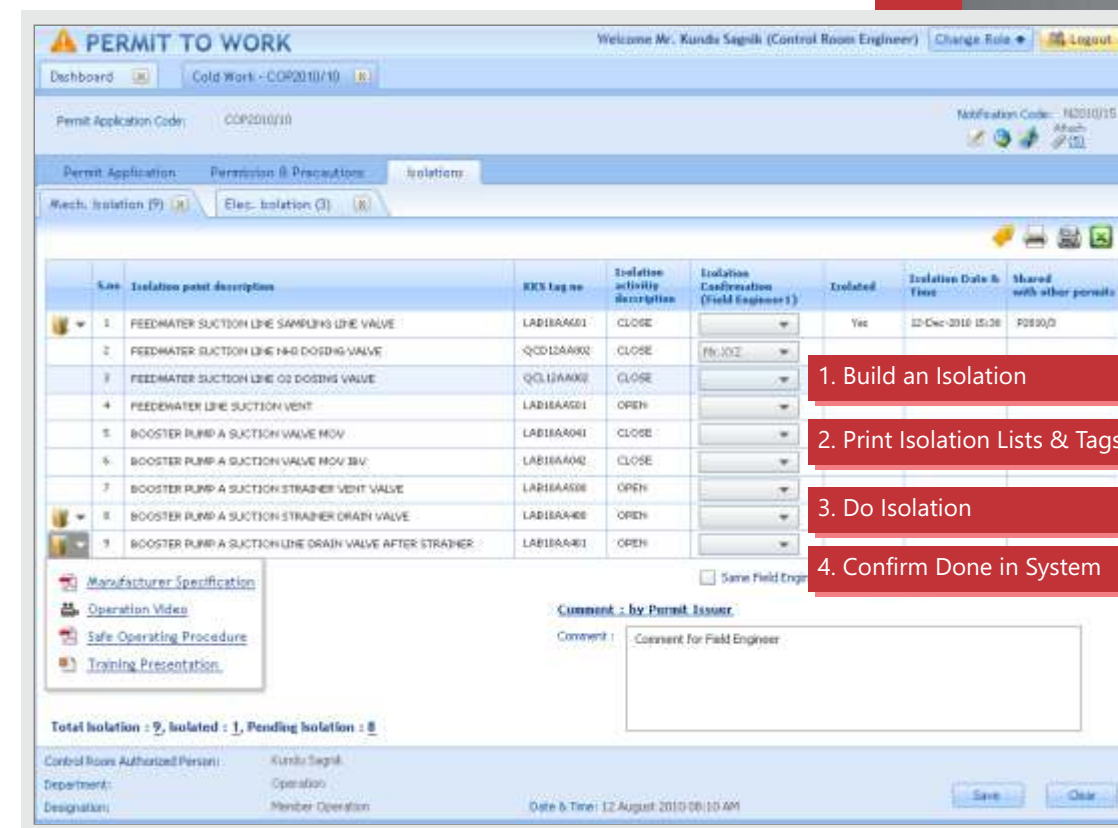
## Isolation & Control

e-PTW contains feature to manage the entire isolation process with controls and checks to support logical process flow, ensuring the synchronization of plant isolation with permits.

The isolation & de-isolation process can be managed with Lock or Tag control. It gives engineer the ability to print Isolations list & Tags that can be taken to the worksite and used to carry out the required isolations which are then recorded in the software.

## Featuring

- Isolation points & types
- Isolation states
- Shared isolations
- Procedure attachments
- Tag & lock box detail
- Audit & History



1. Build an Isolation
2. Print Isolation Lists & Tags
3. Do Isolation
4. Confirm Done in System

"Making plant SAFER to work on"

# Job Safety Analysis

Following task definition the job can be broken down into a series of work steps, each being recorded on the JSA. Each work step is then analyzed separately to determine the potential hazards related to it.

A client-specific Hazard library is provided to stimulate thought and to assist in defining the hazards and controls of each work step.

Draft JSAs can be printed and used to visit the worksite to evaluate the hazard present, followed with the JSA update, refinement and addition of hazards and controls.

Supplementary assessments such as materials, hazards, lifting plans or crafts can also be supported with the document attachment facilities of the system.

## JSA Steps

- 1.0. Work Request, Define and Categorize Work
- 2.0. Raise JSA & define the Equipment & Work Scope
- 3.0. Form a JSA Team (if required)
- 4.0. Define Work Steps
- 5.0. Conduct Work-site Assessment
- 6.0. Conduct Risk Assessment
  - 6.1. Identify all the Hazards and determine risk ratings
  - 6.2. Assign controls to risks that are not acceptable
  - 6.3. Determine risk ratings after controls are applied
  - 6.4. Re-assign controls until all risks are acceptable
  - 6.5. Finalize documents
- 7.0. Submit for approval
- 8.0. Approve or Re-Assess

# Features

## Knowledge Sharing

Knowledge-based processing of safety information, such as JSA, Isolations, allied with the capture of lesson learnt following work tasks and experiences gathered at work-sites during execution of actual job, provide safety engineers and other associated agencies with powerful tool to process permits and certificates in an informed and highly integrated manner

## Isolation Management

Application maintains record of each equipment, their isolation points and isolation procedure with relevant aids like actual photographs, drawings and diagrams. It can incorporate the uses application of different Lock-out/Tag-out accessories

## Area Map

- Area map is an aerial view of the plant layout which depicts the current status of permits issued and application waiting
- Identified dangerous zone classification, content of area, danger from & associated risk factor
  - Color codes and symbols identify the nature of permits
  - Identification marks for different permits with their brief work description
  - With a single click, entire status of permits & application appears
  - Identification marks for different isolation points with status
  - Unique identification marks for confined space and continuous gas testing monitoring is depicted

## Warning & Alerts

- Software warns issuer if permit is being raised; coincides with a permit in current use on same location or grid reference, thereby saving time and effort
- Location hazard warning with danger zone classification ensures that users are aware of the potential dangers, so that the appropriate protection and control measures can be taken
- Reminder for the permit validity expiry
- State-flow also encompasses email, concurrence, notifications, lesson learned, gas testing and many other trigger features to support the safety processes.

## External References

Facility to attach any external references in form of electronic document such as work procedures, photographs, drawing, diagrams etc.

## Permit Monitoring

Facilitates to maintain log of ongoing permits with wireless hand held devices

## Dynamic Monitoring

The safety team should remain aware of the potential for new hazards as work progresses & not become complacent. If necessary, they should STOP THE JOB and request to re-assess the task.

## Permit Tracker

Track the permits and its current status

## Management Information

Rule-based structure within a defined authorization process & flexible analysis functions deliver 'real-time' management information. Built in management reports like permit issued, suspended permits, Isolation list, JSA list, Hazards list etc Graphical presentation of history to carry out statistical analysis System supports all reports, permits and certificates to be exported as PDF files for easy distribution purpose

## Complex Job-history

Complex job having large number of permits have been planned, executed & closed, the same will be kept in storage sequentially for reference

## Gas Test Monitoring

Log of continuous/frequent gas testing data using wireless handheld devices

## Approval Mechanism

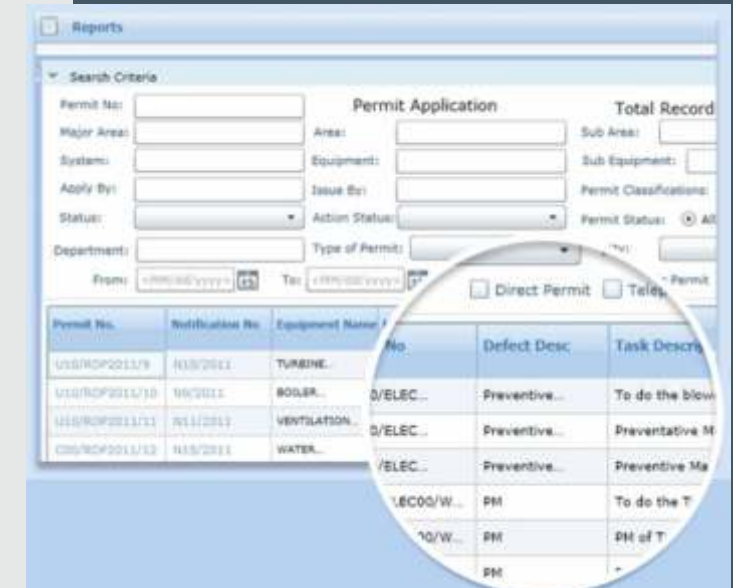
This mechanism validates both the users and the data before allowing a change.

## Security

System offers advanced configurable security features extending to single sign-on, security switching, roll and skill matching.



Area Map



Reports

# System Configuration

A core design goal of e-PTW system is to provide you with a system that adapts to your process and required permit forms and checklists, rather than forcing procedural change to match the software. The architecture allows the system to be configured precise requirements using instruction sets that are utilized by you. Some of the common configuration features are;

- Permits and Certificates – ability to operate client specific forms for all document types in the form of software screens that closely represent the paper JSA, Permits and Certificates. The system supports any number of types, which has its own layout, logic and data to provide users with immediate familiarity and rule based
- Hard copy Certificates and Permits – The format of printed Permits and documents is also client specific. ASK-EHS has implemented different sizes, color, styles, watermarks, single/double side and continuation sheet handling on many printer types
- Isolation and Lock-out / Tag-out methods – The software can be configured to match the full range of methods used by different companies for isolation procedure with features and process flow to support the use of isolation certificates or the alternative method of showing isolations on permits. A range of Lock-out/Tag-out methods are matched to suit client preferences tailor-made tags
- Hazard & Control library – Risk assessment is supported by Hazard library. This can be changed by client to contain their own applicable hazards and potential controls. The library can be added to and developed by the client to evolve as new hazard and controls are recognized through work tasks
- User roles & rights – ability to assign specific roles and rights to authorized person to view, add, edit e-PTW system various stages
- Integration – e-PTW system is open for integration to other systems. The multi-tier object-oriented architecture with its fully exposed APIs is designed to communicate with other systems like MSDS, SAP, ERP systems

permit to work complete solutions

ISO 9001:2008, ISO 14001:2004 and OHSAS 18001:2007 Certified Company

## Technology & compatibility

- Web based solution built using HTML5
- Cross browser compatibility
- Responsive design for desktop and mobility devices
- Barcode / RFID / NFC integration
- Enterprise architecture with support of Load balancer
- On-premise and Cloud Deployment
- Apps for Android and iOS platforms

*"Your system, your rules"*

## Support

Instant Online Support Looking for more information?  
Contact ASK-EHS' representative today!

Email : [info@ask-ehs.com](mailto:info@ask-ehs.com)

Website : <http://www.ask-ehs.com>

Contact No. : +91-261-272 49 94, 272 53 63

\*This document, or any related presentation about ASK-EHS' strategy, strength and possible future developments, directions and functionality of products and/or platforms, are all subject to change and may be changed by ASK-EHS at any time due to any reason without notice. The information in this document is not a commitment, promise or legal obligation to deliver any material, code or functionality.