

**RelyOn Nutec**  
360° Safety

# Digital Control Of Work

*Specially brought to you by:*

**RELYON NUTEC THAILAND**

**360° HSE AND DX SOLUTIONS**

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# Content

- ✓ What & Why **WorkSafe?**
- ✓ Key Considerations
- ✓ DEMO
- ✓ Q&A

# Our Digital Solution Landscape

Your global partner for safety critical industries and digital transformation

We help & assist you to improve Safety, Competencies, Compliance and Embrace the 4<sup>th</sup> Industrial Revolution Through Digital Transformation

“SAFETY IS  
OUR DNA”

TAKING  
SAFETY  
DIGITAL



# ONE-STOP CENTER

*[SERVICES & SOLUTIONS]*

Eliminate business pain points with our problem-solving solution

Save lives  
Save money

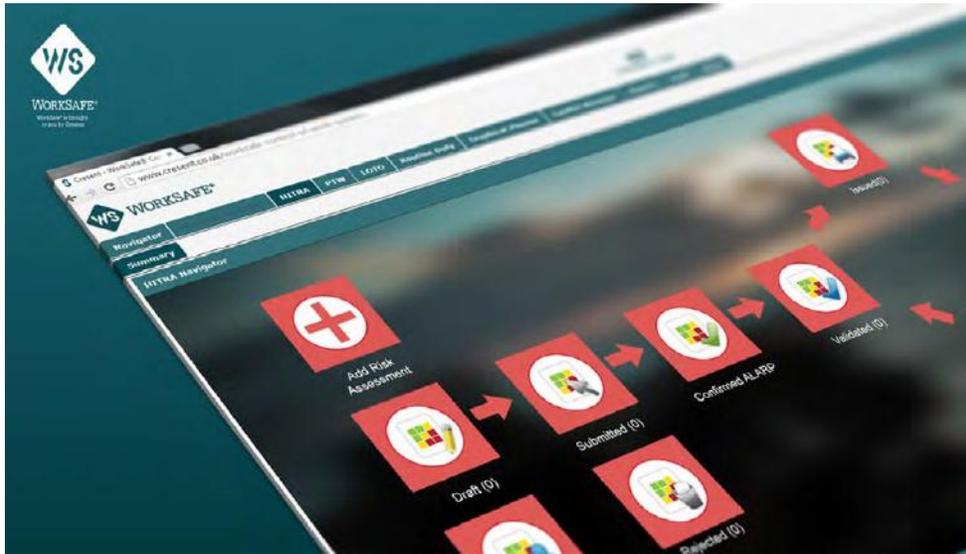
# Digital Control Of Work (WorkSafe)

**WHAT & WHY?**



# WHAT IS WorkSafe® ?

WorkSafe® is a specially-developed tool that helps you to manage and control potentially hazardous work activities.



Three functional modules

**Hazard Identification and Task Risk Assessment (HITRA)**



**Permit to Work (PTW)**



**Lock Out Tag Out (LOTO)**



# WorkSafe® Value Proposition



## How It Work?

- Paper or Electronic

## What Benefit it Brings?

- Reduction of Operating Cost
- Improve Productivity Hours
- Improve Safety

- ✓ *Reduce Use of Paper*
- ✓ *Less Human Error*
- ✓ *Systematic Approach*
- ✓ *Reduce Storage Space*
- ✓ *Avoidance in Process Skipped*
- ✓ *Improve Traceability*
- ✓ *Better Accountability*
- ✓ *Better Records Retention*
- ✓ *Reduce Audit Time*
- ✓ *Better Communication*
- ✓ *Faster Access to Records*
- ✓ *Real time information*
- ✓ *Improve learning process*
- ✓ *Easy Navigation*
- ✓ *Reduce Time on Cross Reference*
- ✓ *Improve Decision Making*
- ✓ *Improve Approval Process*
- ✓ *Travel time and expenses*



## Applicable to All Assets

### WorkSafe®

Safe Management of Work

HIRA - Hazard Identification & Risk Assessment

PTW - Permit to work

LOTO - Management of Isolations

Corporate Standards

Sub-Systems

FULLY CONFIGURABLE

USER INTERFACE FRIENDLY

HSG250/253 COMPLIANT

The modular structure of WorkSafe® enable easy adoption of customer requirements



# How does it work?

## A closer look at the WorkSafe modules



### PRIMARY

#### Task Risk Assessment (TRA)

Identify hazards and implement controls to ensure that residual risk is As Low as Reasonably Practicable (ALARP)



#### Permit to Work (PTW)

A formal, auditable recording process used to control work which is identified as being potentially hazardous



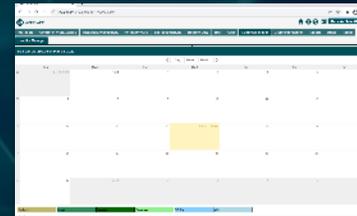
#### Energy Isolation (EI)

Ensure that hazardous equipment is properly isolated and not able to be started up again prior to the completion of maintenance or servicing work



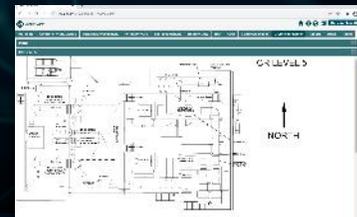
#### Operational Risk Assessment

Ensures that robust arrangements are in place to identify and evaluate major accident hazards before they happen



#### Conflict Manager

Allows privileged system users to avoid conflicting work activities by moving work to a more suitable time



#### Graphical Planner

Provides a multi-level visual overview of permit and non-permit maintenance work to assist with planning work to be undertaken and to minimise conflicts

## What We Offer?



We provide system configuration and change management services to ensure that WorkSafe® is set up to fulfil your requirements.



CoW Library



Task Risk Assessment



Permit to Work



Energy Isolations



Operational Deviations



RAP

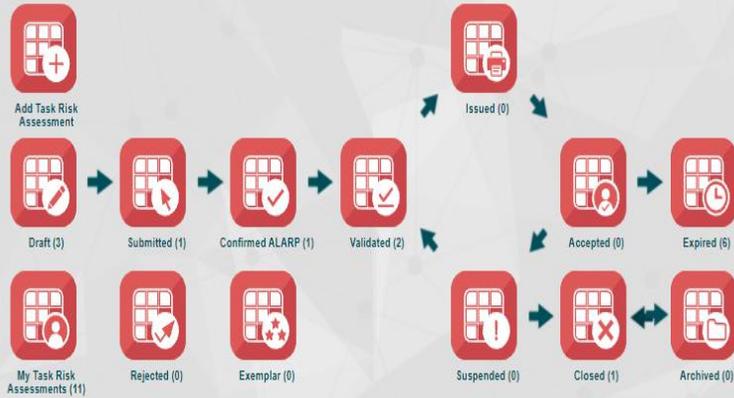


Conflict Manager



Graphical Planner

# Digital HITRA



## Details

### Job Description

LOW Residual Risk Level 1 HITRA  
Converted to a Routine Duty

### Work Order Number

CRES-00001

### Start Date

15/07/2015 07:00 AM

### End Date

15/07/2015 02:00 PM

### Target Location

#### Facility

Nevis Platform

#### Area

\*Gas Compression

#### Location

\*Gas Compression

#### Hazardous Zone Category

Location Classification Zone 2

#### H2S Zone Category

Location Classification

## Equipment

Equipment is Not Applicable

### Description

FAN GEARBOX

### Equipment Tag

FC 004 F1

| Job   |                                | EQUIPMENT    |   | LOCATION |               |
|---|--------------------------------|--------------|---|----------|---------------|
| Energy source   | Hazards & Contributing factors | Initial Risk | Controls  | Level    | Residual Risk |
| Fumes / Vapour - Potential release of Gas Vapour from Fuel Gas Filter Ltd                                 |                                | CR 4         | Mechanical isolation - Ensure valve integrity is checked at Bleed Point   | 3        | C2 1          |
| Fumes / Vapour - Potential release of Gas Vapour from Fuel Gas Filter Ltd                                 |                                | CR 4         | Detection - Local Gas Detection   | 3        | C2 1          |
| Fumes / Vapour - Potential release of Gas Vapour from Fuel Gas Filter Ltd                                 |                                | CR 4         | COSHH assessment - Valid COSHH assessment to be in place  | 3        | C2 1          |
| Fumes / Vapour - Potential release of Gas Vapour from Fuel Gas Filter Ltd                                 |                                | CR 4         | Gas Test Certificate -  | 3        | C2 1          |
| Isolation - Isolation to be Double Block and Bleed  |                                | C4 4         | Mechanical isolation - Ensure isolation meets the Double Block and Bleed isolation standard                         | 3        | C2 1          |
| Isolation - Isolation to be Double Block and Bleed  |                                | C4 4         | Trained, competent personnel - Isolation can only be carried out by competent isolation authority                   | 3        | C2 1          |
| Isolation - Isolation to be Double Block and Bleed  |                                | C4 4         | Isolation Confirmation Certificate -  | 3        | C2 1          |
| Pressure build up - PBU to be tested at Bleed Point before breaking containment and during task execution |                                | CR 4         | Certified pressure equipment - Pressure testing equipment to be checked that it meets the required company standard | 3        | C2 1          |
| Pressure build up - PBU to be tested at Bleed Point before breaking containment and during task execution |                                | CR 4         | Mechanical isolation - Once Double Block and Bleed Isolation is confirmed 'only energy' at associated Bleed Points  | 3        | C2 1          |
| Pressure build up - PBU to be tested at Bleed Point before breaking containment and during task execution |                                | CR 4         | Safe distance away / apart - When carrying out testing, erect barriers to segregate area                            | 3        | C2 1          |
| Pressure build up - PBU to be tested at Bleed Point before breaking containment and during task execution |                                | CR 4         | Detailed procedure or work instruction - Use risk assessed isolation plan   | 3        | C2 1          |
| Pressure build up - PBU to be tested at Bleed Point before breaking containment and during task execution |                                | CR 4         | Correct tools - Non sparking tools to be used   | 3        | C2 1          |

## HITRA Level

Level 1

Level 2

### Location

- Fumes / Vapour  
Example Hazard description
- Air tool for electric tool  
Example Control Description
- Gas Test Certificate  
First test description for Control
- Judi Taylor

### Equipment

- Pinch point  
First test description for Hazards
- Discharge  
Second test description for Hazard
- Pressure build up  
Third test description for Hazard

### Tasks

- Task 1
  - Work at height
  - Caught between
  - Impact/collision/entrapment from moving object
- Task 2
  - LV Electric Shock
  - Portable electrical equipment
  - Sudden loud noise

# Digital Permit To Work



**Permit Information**

**Details** | Permit History | Documents

**Location Details**

Facility  
Nevis

Area  
DR - D20 Substructure

Location  
DRD20S-FA16B Drill Floor

Plant Equipment Tag  
[Empty]

Plant Equipment  
[Empty]

**Permit Details**

Status  
Draft

Permit Reference  
NEV-CW-0000004

Permit Type  
Cold Work

Title  
Construction Site - Excavation

Work Description  
Construction Site - Excavation

**WORKSAFE®**  
Toolbox Talk

Recent Categories  
Discusses with the team and risk all issues that apply:

|                       |                       |                      |                 |                 |           |
|-----------------------|-----------------------|----------------------|-----------------|-----------------|-----------|
| Crane/Lifting Objects | Lifting Equip.        | Hot Equip.           | Hot Surfs       | Working Objects | Noise     |
| Biological            | Electrical            | Pressure             | Manual Handling | SMOPs           | Vibration |
| Underfoot Personnel   | Working at Height     | Slips, Trips & Falls | Excavation      | Heat            | Cold      |
| Spits                 | Tight Confined Spaces | Lighting Visibility  | Access/Gates    | Weather         | WHAT IF?  |

I have received a Toolbox Talk and have read and fully understood all conditions / precautions within this permit.

**WORKSAFE®** | TRA Ref: NEV-TRA0000013

**Task Risk Assessment Level 2**

Job  
Title  
Construction Site - Excavation

Work Description  
Construction Site - Excavation

Area/Location  
Nevis / DR - D20 Substructure / DRD20S-FA16B Drill Floor

Plant Equipment  
-

Tools/Equipment to be used  
Jack Hammer, Grinders  
Exemplar

Summary  
Highest Level Risk: **11** | Highest Residual Risk: **7**

Comments

Any SCE will be affected by the activity?  No  Yes

If Yes, specify: [Empty]

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# Digital LOTO (EI)



WorkSafe Control of Work Library Task Risk Assessment Permit to Work Energy Isolations Routine Duty

Summary Draft

### Related Documents

#### Task Risk Assessments

| Status             | Job Number | Expiry Date/Time | Work Description |
|--------------------|------------|------------------|------------------|
| No Data to Display |            |                  |                  |

#### Permits

| Status             | Permit Number | Permit Type | Expiry Date/Time | Work Description |
|--------------------|---------------|-------------|------------------|------------------|
| No Data To Display |               |             |                  |                  |

#### Electrical Isolation Planning

Requires Electrical Isolation.

Voltage Category  High  Low  Extra Low

#### Electrical Isolation Points

| Point  | Description | Method |
|--|-------------|--------|
| Hover over any column above until you see a down arrow, press it to show/hide columns. Double-click a row to edit. |             |        |

I confirm that this electrical isolation plan is complete.

#### Mechanical Isolation Planning

Requires Mechanical Isolation.

#### Isolation Points

Navigation icons: Home, Search, Add, Edit, Confirm, Cancel

WORKSAFE Certificate #

## ISOLATION CERTIFICATE

Isolation Requester

Signature

Systems to be Isolated / Equipment TAG / Reason for Isolation

Approval to Isolate / De-isolate

Master Isolation:  YES  NO

I confirm that the isolation / de-isolation not conflict with other activities.

Signature

AUTHORIZED DE-ISOLATION

Signature

Related Permits to Work, Entry Certificate and Isolation Certificate

| Permit Number | Description | Permit Status |
|---------------|-------------|---------------|
|               |             |               |
|               |             |               |
|               |             |               |

Conclusion and Filing Record

I/We AREA AUTHORITY confirm that the de-isolation has been completed and equipment is ready to be returned to service

Signature

I confirm that the de-isolation step is complete. All the required documentation has been updated.

Signature

Copyright © 2018 Owerit Page 1 of 3 Isolation\_v4.3

Administration Navigator

- General
- Users & Roles
- Location Hierarchy
- Task Risk Assessment
- Lessons
- Energy Isolations
- Audit

Users Roles Companies Facilities Areas Locations Plant Equipment Shifts Tool Types Hazards Controls Risk Band Causes

Consequences

## Web-Based

- WorkSafe® software is web-based and therefore functions over the internet, intranets and extranets. Though a limited bandwidth and low-reliability connections can slow the system down, for the most part, there are no problems associated with running WorkSafe® using normal business intranets. Again, more details are available in our technical specification.

## IT friendly

- WorkSafe® is a fully web-based net application, making deployment across existing IT systems very easy. For example, there is no software loaded on your PCs so there is no set up required for each networked PC where WorkSafe® is used.

## Easy Deployment

- Your IT department appreciates the technology we use and deploying the software across your business will be a simple process.



# Solution Approach



- Identify the pain point
- Identify business challenges
- Identify area of improvement
- Identify risk management
- Identify Industrial Safety Operation
- Identify short term and long term goal
- **MSTS Asia** team would be glad to assist.

## Identify

## Analyze

- Arrange demo/trial **to experience the features of the system.**
- Post the trial, identified area of customization or enhancement to meet individual organization needs,

- Appoint **MSTS Asia** as a partner to assist in the solution deliverables/implementation.
- Continue the journey of **Digitizing for Safety, Productivity and Compliance** with **MSTS Asia**

## Execute

**RelyOn Nutec**  
360° Safety

**Thank you**

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[www.relyonnutec.com](http://www.relyonnutec.com)



**RelyOn Nutec Thailand**

# WE DELIVER END-TO-END **DIGITAL SOLUTIONS** TO HIGH-RISK INDUSTRIES

30+ years of experience | Best in class technology | 360° suite of applications



## 360° Monitoring

Better insight and visibility to the specific area of business.



## Real-time Integration

Decision-making value by information simultaneously updated



## Reduce operational cost

Increase the efficiency and productivity of the workforce



## Navigation & Interface

Cloud technology platform with current security and GUI



## Training & Supports

Comprehensive assistance to realize the technology's capabilities.