



# **Maximo Health, Safety and Environment**

## ***How to Add New Layers of Control to your business processes***

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Maximo Solutions User Group

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Director of Product Management

# Couple of Questions to Ponder

1. Do you know your company's safety slogan?
2. Are your Health, Safety, and Environment tools integrated with your Maximo Business processes?





ALAMO  
COLLEGES

### MANAGEMENT COMMITMENT

A fundamental responsibility of the Alamo Colleges is the safety and health of our students, employees and visitors on any property owned or operated by the Alamo Colleges. As such, the District has developed a comprehensive Environmental Health & Safety Plan (EHSP) with supporting Standard Operating Procedures (SOPs). When implemented, this plan will provide the Alamo Colleges community effective tools to safely deal with potential hazards in and around our working and learning environments.



The Home Depot is committed to providing a safe environment for our associates who work in our stores and across our global supply chain network, while also creating a safe shopping experience for our customers who visit our stores. We accomplish this by creating a strong culture of safety from day one, which includes the expectation that our associates follow all Occupational Safety and Health administration (OSHA) standards and company safety procedures.



### The following principles guide the way we work:

- We believe that all work-related injuries and occupational illnesses can be prevented
- We ensure that we have the skills and knowledge to work in a safe and healthy way
- We lead by example, take personal responsibility and are accountable for our actions

### In addition, we place special emphasis on:

- Minimising the risk of a major multi-injury incident
- Planning work and adopting behaviours that minimise risks to health
- Providing assets that are designed and maintained to be safe to operate



### Employee Health & Safety Management System

The purpose of a safety and health management system is to provide a framework for managing the prevention of work-related injury and illness.

Corning employs an internal safety and health management system (SHMS) model that incorporates hazard recognition, risk evaluation and control. The basis of the model is the concept of Plan-Do-Check-Act (PDCA), which requires leadership, commitment and participation of employees from all levels and functions of the organization.

The model is an iterative process that provides for continual improvement.



# Simplified Risk ID and Mitigation



- Step 1: Identify and analyze the risk
- Step 2: Review possible solutions
- Step 3: Implement the solution
- Step 4: Check and make any changes
- Step 5: Take action

Plan – Do – Check - Act

# High Risk Industries

- Operational
- Environmental
- Regulatory
- Compliance
- High Availability
- Business
- Dynamic

Maximo HSE helps you to:

Step 1: Identify and analyze the risk

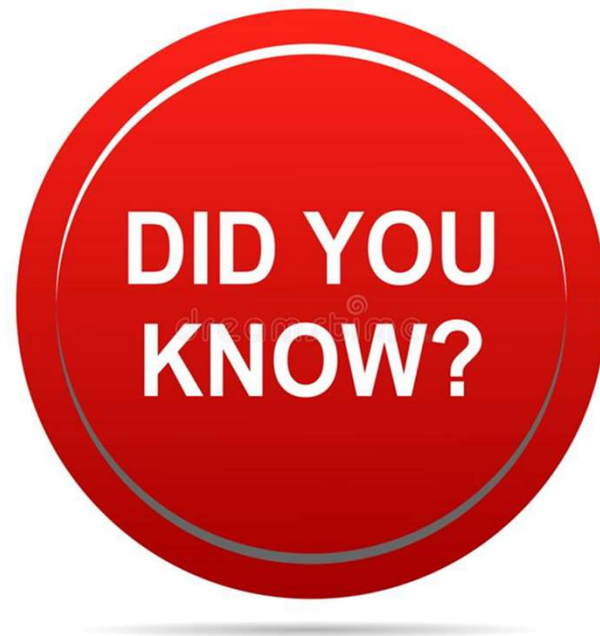
Step 2: Review possible solutions

Step 3: Implement the solution(s)

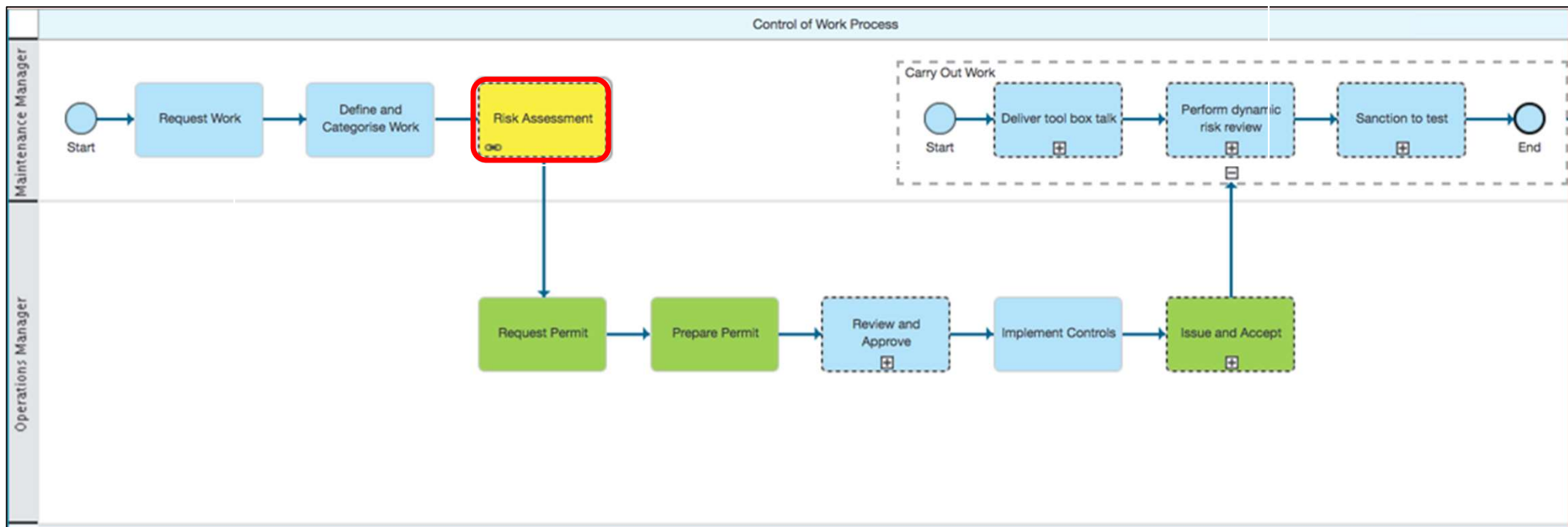
Step 4: Check and make changes

Step 5: Take action





# Risk Assessment | Permit to Work





# Risk Assessment



Home

Menu

Risk Assessment

Mike Wilson

Find Risk Asse

Icons

List View

Risk Assessment

Hazard Review

Review and Approval

Checklist

Environmental Risk

Assessment Team

Specifications

Related Records

Log

Risk Assessment:

1001

Prepared By:

WILSON

Template?

Organization:

Status:

DRAFT

Owner:

Site:

Status Date:

2/12/18 3:14 AM

Owner Group:

Attachments

Details

Job Plan:

Job Plan Revision #:

Location:

BR450

Feed Water Pump- Centrifugal/100GPM/60FTHD

Asset:

11450

Centrifugal Pump 100GPM/60FTHD

Approved By:

Approval Date:

Lock Out / Tag Out:

Classification:

Class Description:

Operational Risk Assessment?

Category:

Type:

Most Significant Risk Ranking:

Most Significant Risk Priority:

Risks

Filter

0 - 0 of 0

Hazard

Description

Consequence

Severity

Risk Ranking

Mitigated Risk Ranking

There are no rows to display.

Select Hazards

New Row

Precautions

Filter

0 - 0 of 0

Precaution

Description

Organization

Site

Precaution Confirmed?

Date

There are no rows to display.

Select Precautions

New Row

Select Value

Type

Filter

1 - 7 of 7

Value	Description
HAZARD	Hazard Review
IMPACT	Impact Assessment
JSR	Job Safety Review
LOCATION	Location Safety Review
MOC	MOC Risk Assessment
PROJECT	Project Risk Assessment
TRA	Task Risk Assessment

Cancel

Select Value

Category

Filter

1 - 6 of 6

Value	Description
BUSINESS	Business Risk
ENVIRONMENTAL	Environmental Risk
OPERATIONAL	Operational Risk
PROJECT	Project Risk
REPUTATION	Corporate Reputation
SAFETY	Safety Risk

Cancel

Risk Assessment

Mike Wilson

Find Risk Assessment

Find Navigation Item

Go To Applications

Available Queries

All Records

All Bookmarks

Common Actions

New Risk Assessment

Save Risk Assessment

Clear Changes

Change Status

Select Owner

Take Ownership

Create Report

More Actions

View Risk Assessment History

Create

Modify/Delete Work Log

Attachment Library/Folders

Duplicate Risk Assessment

Delete Risk Assessment

Add to Bookmarks

Run Reports

List

Risk Assessment

Hazard Review

Review and Approval

Checklist

Environmental Risk

Assessment Team

Specifications

Related Records

Log

Risk Assessment: 1006

JSA - Working at height

Status: DRAFT

Organization: EAGLENA

Type:

Category:

Summary

Hazard Summary:

Total Score:

Complete the responses for each review action. Add comments, as needed. If an icon is present against a review action, expand the row and complete the responses for the Review Items.

Review Actions

Filter

1 - 9 of 9

Standard Action	Description	Yes?	No?	Not Applicable?	Alphanumeric	Score	Completed?	Sign Off
JSA9	Is there a heat hazard?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>	
JSA8	Is there a pressurised equipment hazard?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>	
JSA7	Is there any manual handling involved?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>	
JSA6	Is there potential for dropped objects?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>	
JSA5	Will lifting equipment be required?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>	
JSA4	Will there be any handling of a hazardous sul	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>	
JSA3	Is work in a confined space required?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>	
JSA2	Is there any electrical hazard?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>	
JSA1	Is working at height required?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>	

Select Actions

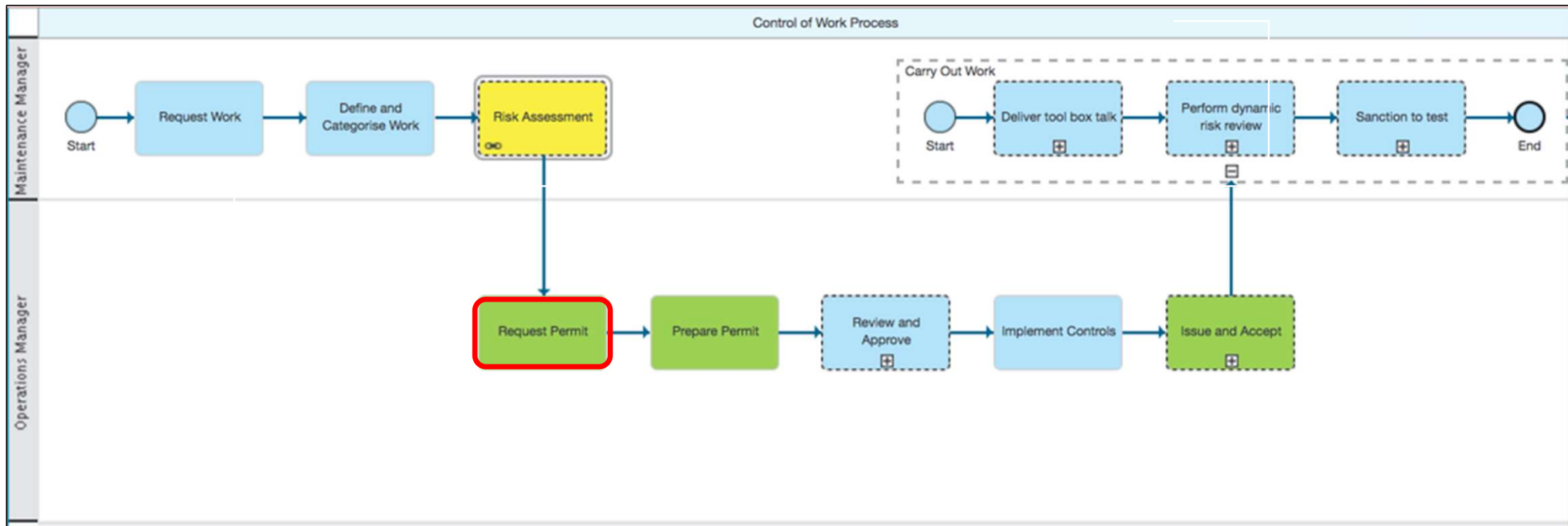
Select Action Group

New Row

Go To Operational Actions







STARBOARD  
CONSULTING

# Risk Assessment | Permit to Work







# Permit to Work


Permit: <input type="text" value="1003"/>  Extension: <input type="text" value="0"/> Permit Risk Level: <input type="text"/>  Permit and Certificate Type: <input type="text"/> 	Status: <input type="text" value="REQUEST"/> Site: <input type="text" value="BEDFORD"/>  Owner: <input type="text"/> Owner Group: <input type="text"/>	<a href="#">Attachments</a>  Template? <input type="checkbox"/> Permit Class: <input type="text" value="PERMIT"/> 
--	--	---


Issue Summary

Required Date:	<input type="text"/>	Validity:	<input type="text"/>
Working Hours:	<input type="text"/>	Units:	<input type="text"/>


Original Start:  

Start:  


Finish:  

Created:  

2/12/18 3:32 AM

Total Duration:  

0D 0H 0MIN

Valid Until:  





Find Permit



List View

## Permit to Work

### Hazards and Isolations

### Review and Approval

## Checklist

### Issue and Acceptance

## Toolbox Talk

☀ Permit:

1003

**Extension:**

Q

**Status:**

## REQUEST

Permit and Certificate Type:

Permit Risk Level:

Site:

BEDFORD

### Toolbox Talk Completion

### Toolbox Talk?

Toolbox Talk Completed By:



Toolbox Talk Completed:



Comments:



## Permit to Work Details

# HOT WORK PERMIT

Permit No: 1002

Permit Description: Hot Work in Main Switch Yard

Extension: 0

Type: HOTWORK

Status: DRAFT

### Task Details

Permit Level: 1  
Owner Group:  
Validity: (with Units) 0  
Duration: 0

Site: BEDFORD  
Unit:  
Area:  
Location: NEEDHAM  
Location Description: Needham Site  
Asset:  
Asset Description:  
Zone Classification:

Requested By: WILSON  
Site Checked By:  
Site Checked Date:  
Confined Space Controller:

Originating Work Order:  
Description:  
Originating Task:  
Description:  
Activity Category: Commissioning  
Specialist Isolations:  
Reason for Isolation:

### Cancellation

Work Completed: N  
Returned to Safe Condition: N  
Isolation Removal Verified: N  
Returned to Production: N  
Inhibits Removed: N

Performing Authority:  
Issuing Authority:  
Isolating Authority:  
Area Authority:  
Issuing Authority:

Work Completed:  
Returned to Safe Condition:  
Isolation Removal Verified:  
Returned to Production:  
Inhibits Removed:

### Review

Reviewed By:  
Reviewed Date:





# Work Order Tracking

Work Order Tracking

Mike Wilson

Find Work Order

List

Work Order

Plans

Assignments

Related Records

Actuals

Safety Plan

Log

Failure Reporting

Specifications

Service Address

Details

Regulations

Map

Work Order: 1373

Location: >>

Asset: >>

Configuration Item: >>

Parent WO: >>

Classification: >>

Class Description: >>

Launch Entry Name: >>

Audit: >>

Site: BEDFORD

Class: WORKORDER

Work Type: >>

GL Account: >>

Failure Class: >>

Problem Code: >>

Storeroom Material Status: >>

Direct Issue Material Status: >>

Work Package Material Status: >>

Material Status Last Updated: >>

Attachments >>

Status: WAPPR

Status Date: 2/12/18 11:59 AM

Inherit Status Changes? ☒

Accepts Charges? ☒

Is Task? ☐

Under Flow Control? ☐

Suspend Flow Control? ☐

Flow Action: >>

Flow Action Assist? ☐

Completions

Completion Stage: >>

Test Type: >>

Test Certification? ☐

Certificate Type: >>

Technical Authority Type: >>

Technical Authority: >>

Job Details

Asset Details

Priority

Job Plan: >>

Job Plan Revision #: >>

PM: >>

Safety Plan: >>

Contract: >>

Condition for Work: >>

Asset Up? ☐

Warranties Exist? ☐

SLA Applied? ☐

Charge to Store? ☐

Current Value: >>

Asset/Location Priority: >>

Priority: >>

Priority Justification: >>

Risk Assessment: >>

Operating Policy: >>

Assurance Activity? ☐

Work Order Track

Mike Wilson

Find Work Order

List

Work Order

Plans

Assignments

Related Records

Actuals

Safety Plan

Log

Failure Reporting

Specifications

Service Address

Details

Regulations

Map

Work Order: 1373

Site: BEDFORD

Status: WAPPR

Related Work Orders

Filter

0 - 0 of 0

Work Order	Description	Class	Status	Relationship
There are no rows to display.				

Select Work Orders

New Row

Related Tickets

Filter

0 - 0 of 0

Related Record Key	Description	Class	Status	Relationship
There are no rows to display.				

Select Tickets

New Row

Related Permits to Work and Isolation Certificates

Filter

1 - 2 of 2

Select Permits to Work and Isolation Certificates

New Row

Related Operator Log Entries

Filter

0 - 0 of 0

Select Log Entries



# Regulatory Compliance



Associate Regulations to  
different Objects

**Regulatory Compliance** Mike Wilson

Find Regulation

**List View** Regulation Log **Where Used**

Regulation: NFPA10 Standard for Portable Fire Extinguishers Status: ACTIVE Organization: Site:

Assets Locations Job Plans Hazards Permit and Certificate Types Operating Policies Operating Procedures Items PMs Audit and Survey

Assets **Filter** 1 - 1 of 1

Asset	Description	Site
1004	Fire Extinguisher	BEDFORD

**Work Order Tracking** Mike Wilson

Find Work Order

[List View](#)
[Work Order](#)
[Plans](#)
[Assignments](#)
[Related Records](#)
[Actuals](#)
[Safety Plan](#)
[Log](#)
[Data Sheet](#)
[Failure Reporting](#)
[Specifications](#)
[Service Address](#)
[Details](#)
[Regulations](#)

Map

Work Order:  Site: BEDFORD Status: WAPPR

Regulations [Filter](#) 0 - 0 of 0

Regulation	Description	Regulation Number	Regulation Type	Regulatory Authority	Applies to Work Order?
There are no rows to display.					

Work Order

**Preventive Maintenance** Mike Wilson

Find PM

[List View](#)
[PM](#)
[Frequency](#)
[Seasonal Dates](#)
[Job Plan Sequence](#)
[PM Hierarchy](#)
[Forecast](#)
[Regulations](#)

PM: MPM-6767 Fire Extinguisher Master PM Site: BEDFORD Status: DRAFT

Regulations [Filter](#) 1 - 2 of 2

Regulation	Description	Regulation Number	Regulation Type	Regulatory Authority
REG41KC	Fire protection performance standard	Internal	SAFETY	
NFPA10	Standard for Portable Fire Extinguishers	NFPA10	SAFETY	National Fire Protection Association

Select Regulations New Row

PMs

1. PMs to Schedule the Compliance Activities
2. Track Compliance Cost
3. Prove Compliance during audit

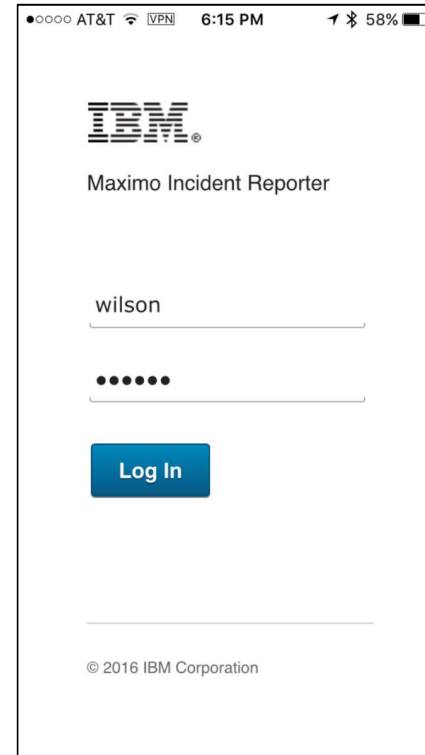


# Incident Management



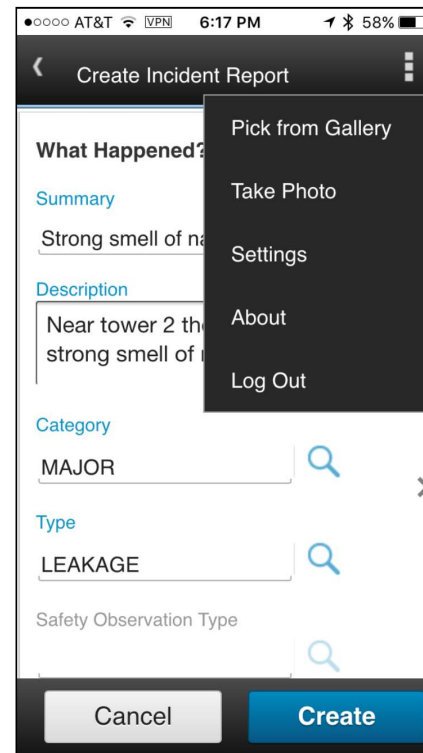
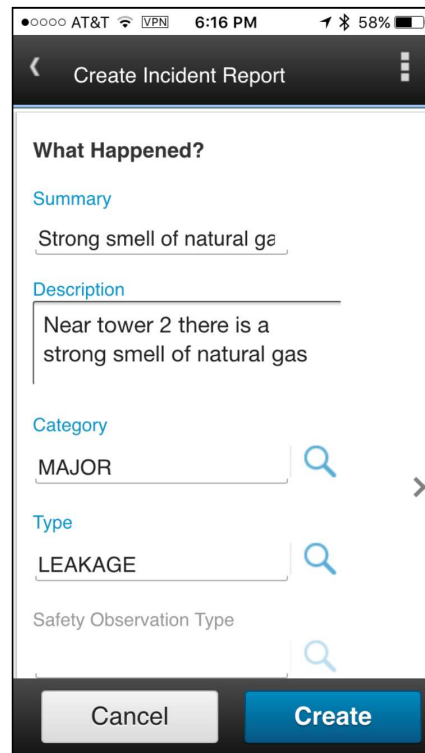
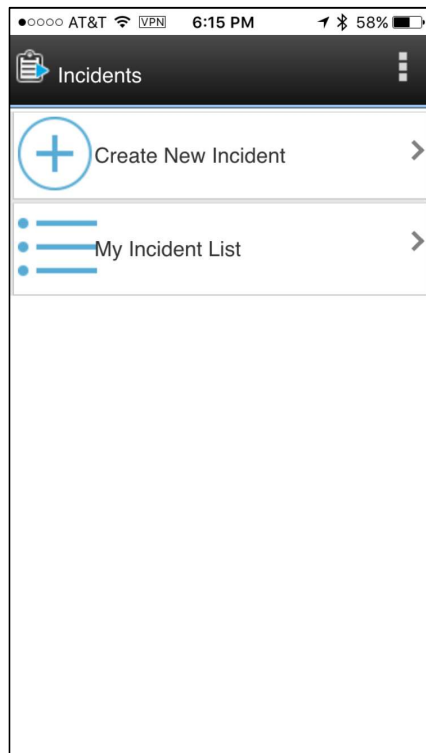
# Mobile Incident Reporter

- What happened?
  - Where did it happen?
  - Who was involved?
  - What did you do about?
- 
- Capture all types of incidents / near misses
    - Safety Observations
    - Hazard Reporting
    - Injury / Illness
    - Accidents....



The screenshot shows a mobile app interface for the IBM Maximo Incident Reporter. At the top, the status bar displays 'AT&T', 'VPN', '6:15 PM', and '58%' battery. The app header features the IBM logo and the title 'Maximo Incident Reporter'. Below this, there is a login form with a text field containing 'wilson', a password field represented by six dots, and a blue 'Log In' button. At the bottom, a copyright notice reads '© 2016 IBM Corporation'.

# What Happened?



# Where Did It Happen?

AT&T VPN 6:18 PM 57%

Create Incident Report

Where did it happen?

Capture GPS coordinates?

☒

Street Address

City

State

Tap to enter

Address Description

Cancel Create



AT&T VPN 6:19 PM 57%

Create Incident Report

Address Description

Location

Tap to enter

Asset

Tap to enter

Cancel Create

# Who Was Involved?


Who was involved? -- + >

**Add Persons Impacted**

Name  
\_\_\_\_\_

Phone  
\_\_\_\_\_

E-mail  
\_\_\_\_\_

Person Role  
Tap to enter 

Cancel Create

**Select Value** 

4

Injured/III	Indicates that the person was injure...
Primary	Incident is a direct result of the acti...
Secondary	Incident is an indirect result of the a...
Witness	Indicates that the person is a witness

Cancel Clear Value

# What Did You Do About It?

AT&T VPN 6:21 PM 57%

< Create Incident Report

Asset

Tap to enter

101041

Who was invol... 1 + >

Action Taken

Action Taken

Action Taken Comment

Cancel Create



AT&T VPN 6:21 PM 57%

Select Value

5

AUTHORITY Reported to Authority

SOLUTION Temporary Solution in P...

SUPERVIS... Reported to Supervisor

VICINITY Warning Placed in Vicinity

VIOLATION Advised Violator of Viol...

Cancel Clear Va...

# Incident Start Center / Power App

**Welcome, Mike Wilson**

**Find Navigation Item**

**Go To Applications**

- My Recent Applications
- Administration
- Analytics
- Assets
- Change
- Change (Oil)
- Contracts
- Financial
- IT Infrastructure
- Integration
- Inventory
- Operations (Oil)
- Planning
- Preventive Maintenance
- Purchasing
- Release
- Safety and Quality Manag...
- Security
- Self Service
- Service Desk
- Service Level
- System Configuration
- Task Management
- Work Orders

**Administration** | New Template | Report Admin

**Incident Reporting Center**

- Safety Observation - Near Miss
- Hazard Report - Near Miss
- Injury-Illness - Minor
- New Incident

**Security, Users and Groups**

- Users
- Security Groups
- People
- Person Groups

**Workflow Configuration**

- Workflow Designer
- Roles
- Actions
- Communication Templates
- Workflow Administration
- Escalations

**Reporting**

- Report Administration
- KPI Manager

**Bulletin Board**

There are currently no bulletin board messages to view.

**Major Leak Incidents**

Reported Date	Incident	Reported By	Phone	Incident Category	Incident Type	Summary
9/15/16 6:15 PM	1229	WILSON	(617) 555-9017	MAJOR	LEAKAGE	Strong smell of natural gas

Set Chart Options 1 - 1 of 1

**Inbox / Assignments**

No Assignments found for Mike Wilson

**PM vs CM Work - All Work Orders (%)**

Last Run: 9/15/16 9:36 PM [Update](#)

**PM Performance (%)**

Status	KPI	Actual	Target	Variance
	PM Performance (%)	0	95	-95

**Bedford Work Orders**

Chart Type: BAR View By: Priority

# Incident Start Center / Power App

**List View** Incident Sequence of Events Activities Related Records Solution Details Log Failure Reporting Specifications Service Address High Context Map

Incident: 1229 Owner: Owner Group: Incident Type: LEAKAGE Incident Category: MAJOR Safety Observation Type: Status: NEW

**Address Information**

**User Information**

**Incident Details**

Summary: Strong smell of natural gas Site: BEDFORD Reportable? ☐

Classification:

Class Description:

Reported Priority:

Internal Priority:

Is Defect? ☐

Investigation Required? ☐

High Context? ☐

From Review Required? ☐

SLA Applied? ☐

**Details:**

Font: Size: Format: None

Near tower 2 there is a strong smell of natural gas

**Action Taken:**

AUTHORITY

**Action Taken Details:**

Font: Size: Format: None

Reported to Area Supervisor

**Persons Impacted by Incident** Filter > 1 - 1 of 1

Person Impacted	Name	Phone	E-mail	Person Role	External Person?
SMITH	Roland Smith	(617) 375-88	roland.smith@interspeed.net	Witness	<input type="checkbox"/>

Select People New Row

**Attachments** Filter > 1 - 1 of 1

Document	Description
LEAKING HOSE JUNG	The second hose from the right

Attach File Add Link to Web Page

**Risk and Consequence**

Hazard:

Risk Assessment:

**Impact**

Worldwide Incident? ☐

Regional Incident? ☐

Global Issue? ☐

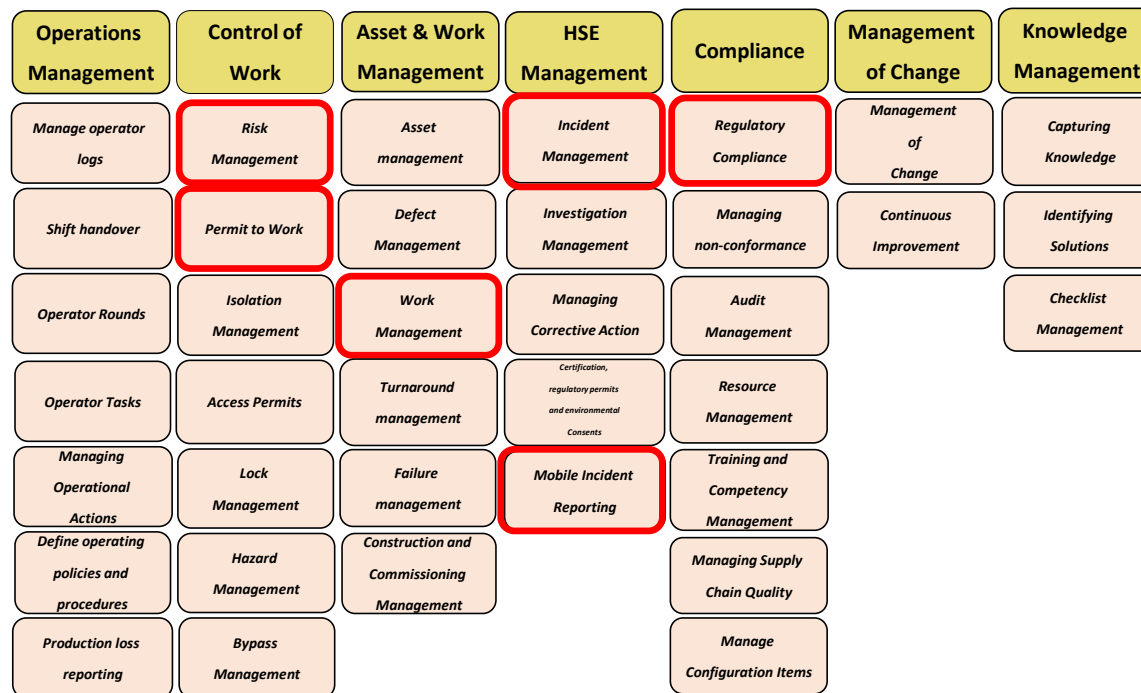
Related to Global ID:



# Maximo HSE Manager 7.6.2 Business Processes

## Major Business Processes

Detailed Business Processes





# Q&A

**STARBOARD BREAKOUT ROOM**

**THUR 11/9 3:40p – 4:10P**

<https://bit.ly/3MpkLmE>

**Kyle Harding – Director of Product Management  
Starboard Consulting**

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**407-392-3182**

