



Insights From a 5-Year Journey in Global EHS Transformation

March 19, 2020



Welcome to NAEM

Peer Forums



Research Insights



Targeted Networking



Actionable strategies that empower
EHS&S leaders to make an impact



We Connect EHS & Sustainability leaders

120

Corporate Members

4,200

Individual Members

60

Affiliate Members

Reaching a
community of Practice

25K+



Nominate Your Colleagues!

NAEM's Award Program

3 Types of Awards

Lifetime Achievement

Leadership in Action

NexGen Awards

➤ **Deadline: May 22**

➤ <https://www.naem.org/what-we-offer/excellence-awards>





Today's Speakers

Perry Hawkins

Corporate Director – Environmental, Health,
& Safety and Risk Management

CIRCOR International Inc.



CIRCOR Insights into Global EHS Transformation:

Driving Operational and Cultural Change using Data Management Systems



Perry Hawkins

Corporate Director of EHS and Risk
Management at CIRCOR International Inc.

March 19, 2020

CIRCOR International Inc.

CIRCOR International is a global manufacturer of valves, pumps, and associated products/services. CIRCOR has 4,400+ employees at 27 manufacturing facilities in 12 countries.

As a leader in flow and motion control products and services for the world's most severe-service, mission critical applications, CIRCOR designs, manufactures, and distributes valves, instrumentation, pumps, pipeline products and services, and other engineered products and sub-systems used in the oil and gas, power generation, aerospace, defense, and industrial markets worldwide. CIRCOR: Excellence In Flow Control.



In the Beginning...



High Number
of Injuries



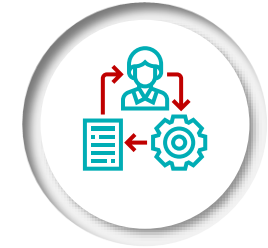
No Standard Approach
to Injury and Data
Management



Lack of Standardization of
Processes and Systems
Across All Sites



Lack of Employee
Engagement in EHS



Limited EHS Focus - No
EHS Activities,
Committees or Teams



Zero Tolerance
Objectives but No
Written Procedures



No Management
System – Only
an EHS Policy



Lack of Safety Leadership
with Limited Experienced
Professionals



A Reactive
Safety Culture

Setting the Foundation for Success - 2014 to 2018



New Vision for the EH&S Program
EH&S Roadmap and Initiatives
2014-2018 Sustainability Objectives



**Investment in EH&S Improvements –
Capital Funding / EHS Budgets**



**Development and Implementation of the
CIRCOR EHSMS**
Policy and Procedures
EH&S Programs
Case Management



Focus on Employee Engagement
EH&S Surveys
Behavioral Based Safety Program
(Proactive Observations)
Safety Milestones / EH&S Rewards and
Recognition Program

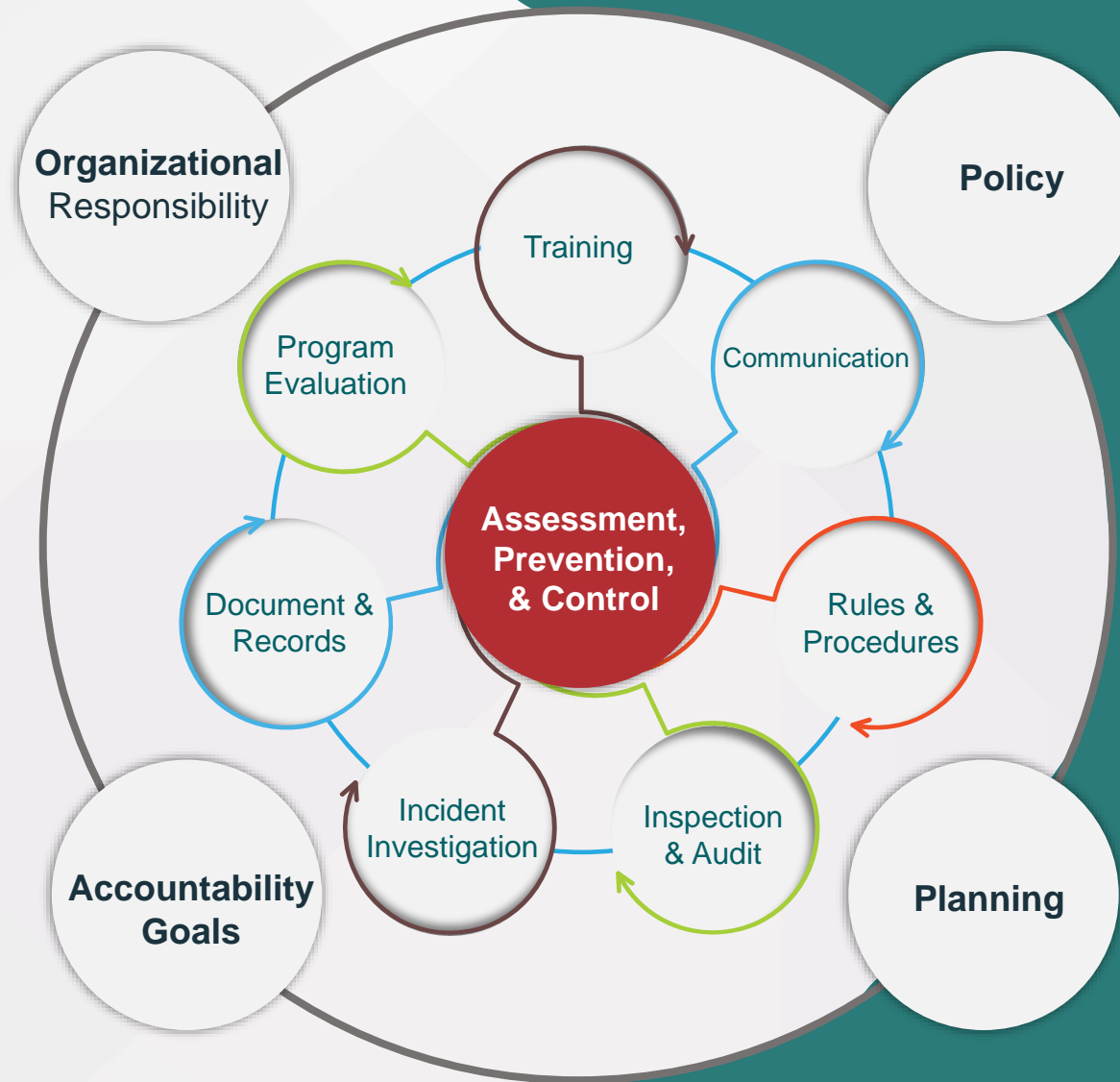


EHS Talent Acquisition
Added Full-Time EH&S Professionals
at all Manufacturing Locations



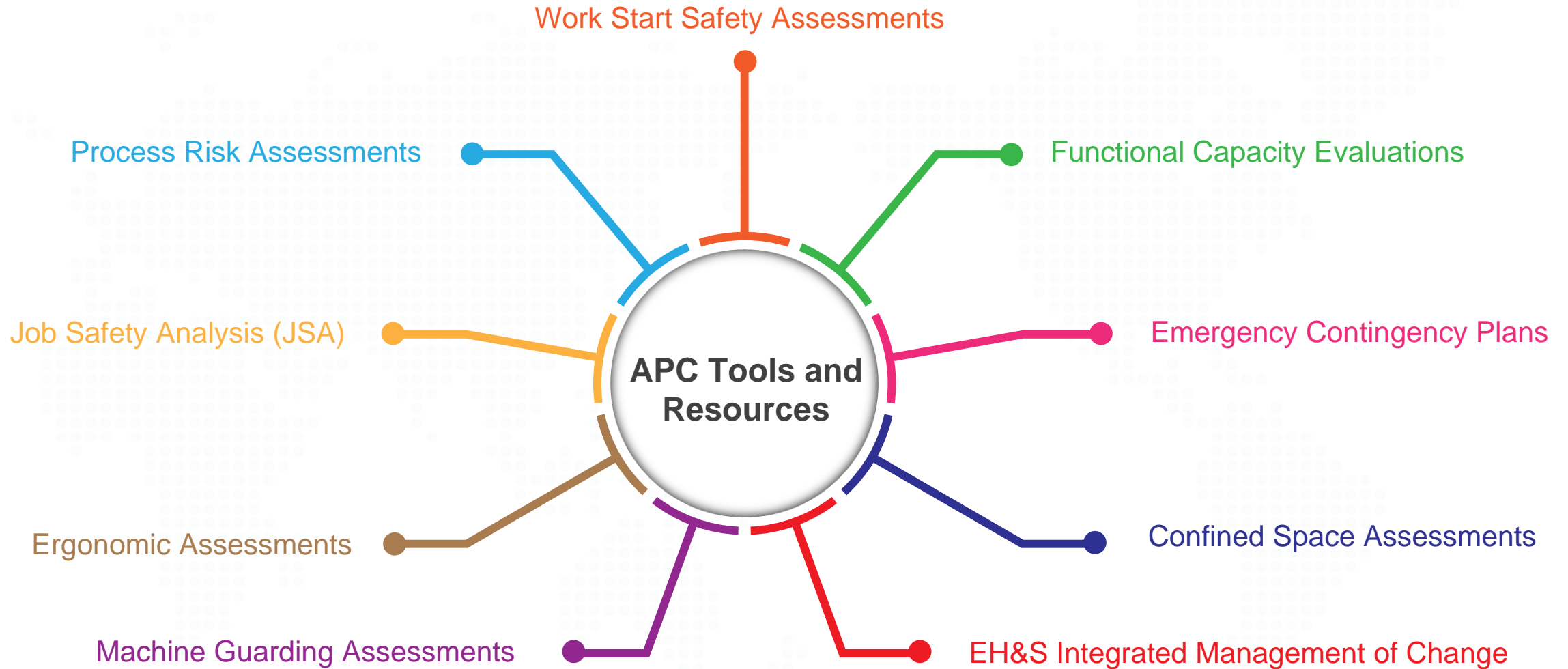
**Implementation of a robust EH&S Data
Management and Intelligence System**

EH&S Management System Implementation



The CIRCOR EH&S Management System is organized into Twelve (12) Elements that support CIRCOR's EH&S continual improvement process, which includes planning, implementation, and measurement.

Transitioning EH&S Tools into Digital Solutions





EASIER

CIRCOR's EH&S Data Management Overview

EHS Data Management System Review and Selection

ProcessMAP is a leading Data Intelligence Platform that empowers organizations to **Minimize Risk**, **Assure Compliance** and **Ensure Safety**



Founded in 2000

Industry pioneer with
more than
20 Years of
innovation



Global Platform

3M users in
140+ countries with
27 Languages



Integrated Platform

Comprehensive **EHS**
Cloud & Mobile
solutions along with
inbuilt **Analytics**



Cloud/SaaS Model

Low **TCO**, Highly
Secure and
Reliable

EASIER – EH&S Data Management

EASIER Electronic
Application for
Simplified
Information,
Evaluations &
Reporting

Focused Applications

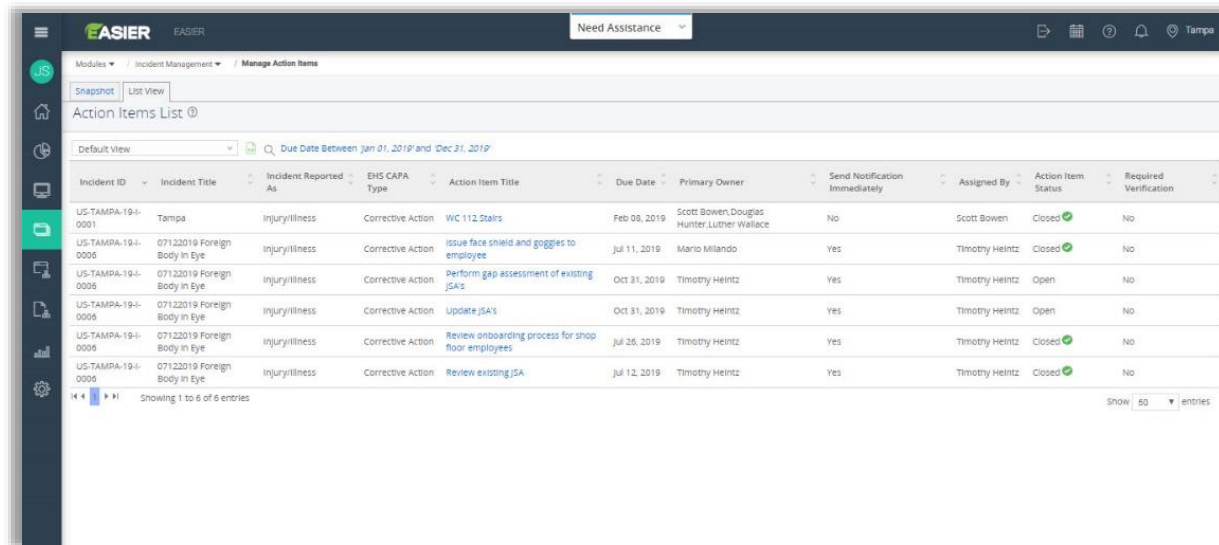
- » Incident Management
- » Performance Management
- » Audits Management
- » Task Management/Calendar
- » Events Management
- » Training Management
- » Management of Change
- » EHS Apps – Powered by ProcessMAP AppBuilder™ Platform

Benefits

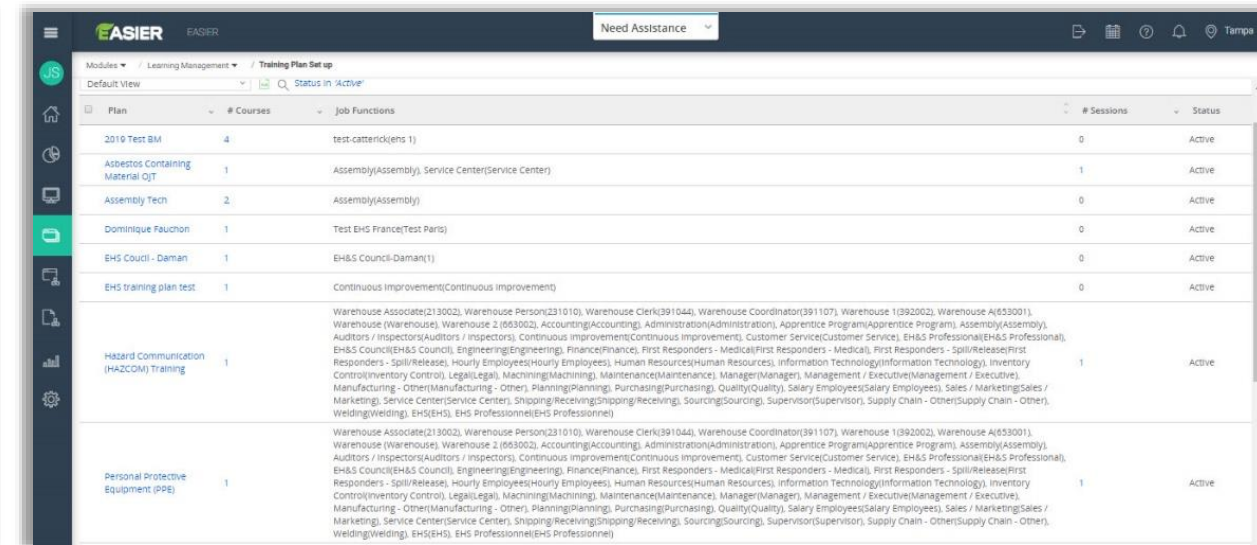
- » Simplified Dashboard
- » Cloud Based Solution / SSO
- » CAPA Tracking and Notification (Incidents, Audits, Calendar, etc)
- » MOC Approval and Action Tracking
- » Training Scheduling and Notification
- » Calendar and Event Management
- » Sustainability (E-Metrics) Reporting
- » Mobile App (Auditing)

EASIER - EH&S Data Management

Operational Benefits of the EASIER System



Incident ID	Incident Title	Incident Reported As	EHS CAPA Type	Action Item Title	Due Date	Primary Owner	Send Notification Immediately	Assigned By	Action Item Status	Required Verification
US-TAMPA-194-0001	Tampa	Injury/Illness	Corrective Action	WC 112 Stairs	Feb 08, 2019	Scott Bowen/Douglas Hunter/Luther Wallace	No	Scott Bowen	Closed	No
US-TAMPA-194-0006	07122019 Foreign Body in Eye	Injury/Illness	Corrective Action	Issue face shield and goggles to employee	Jul 11, 2019	Mario Milano	Yes	Timothy Heintz	Closed	No
US-TAMPA-194-0006	07122019 Foreign Body in Eye	Injury/Illness	Corrective Action	Perform gap assessment of existing JSAs	Oct 31, 2019	Timothy Heintz	Yes	Timothy Heintz	Open	No
US-TAMPA-194-0006	07122019 Foreign Body in Eye	Injury/Illness	Corrective Action	Update JSAs	Oct 31, 2019	Timothy Heintz	Yes	Timothy Heintz	Open	No
US-TAMPA-194-0006	07122019 Foreign Body in Eye	Injury/Illness	Corrective Action	Review onboarding process for shop floor employees	Jul 26, 2019	Timothy Heintz	Yes	Timothy Heintz	Closed	No
US-TAMPA-194-0006	07122019 Foreign Body in Eye	Injury/Illness	Corrective Action	Review existing JSA	Jul 12, 2019	Timothy Heintz	Yes	Timothy Heintz	Closed	No



Plan	# Courses	Job Functions	# Sessions	Status
2019 Test BM	4	test-catterick(ens 1)	0	Active
Asbestos Containing Material OJT	1	Assembly(Assembly), Service Center(Service Center)	1	Active
Assembly Tech	2	Assembly(Assembly)	0	Active
Dominique Fauchon	1	Test EHS France(Test Paris)	0	Active
EHS Council - Daman	1	EHS Council-Daman(1)	0	Active
EHS training plan test	1	Continuous Improvement(Continuous Improvement)	0	Active
Hazard Communication (HAZCOM) Training	1	Warehouse Associate(213002), Warehouse Person(231010), Warehouse Clerk(391044), Warehouse Coordinator(391107), Warehouse 1(392002), Warehouse A(453001), Warehouse (Warehouse), Warehouse 2 (463002), Accounting(Accounting), Administration(Administration), Apprentice Program(Apprentice Program), Assembly(Assembly), Auditors / Inspectors(Auditors / Inspectors), Continuous Improvement(Continuous Improvement), Customer Service(Customer Service), EHS Professionals(EHS Professionals), EHS Council(EHS Council), Engineering(Engineering), Finance(Finance), First Responders - Medical(First Responders - Medical), First Responders - Spill/Release(First Responders - Spill/Release), Hourly Employees(Hourly Employees), Human Resources(Human Resources), Information Technology(Information Technology), Inventory Control(Inventory Control), Legal(Legal), Machining(Machining), Maintenance(Maintenance), Manager(Manager), Management / Executive(Management / Executive), Manufacturing - Other(Manufacturing - Other), Planning(Planning), Purchasing(Purchasing), Quality(Quality), Salary Employees(Salary Employees), Sales / Marketing(Sales / Marketing), Service Center(Service Center), Shipping/Receiving(Shipping/Receiving), Sourcing(Sourcing), Supervisor(Supervisor), Supply Chain - Other(Supply Chain - Other), Welding(Welding), EHS(EHS), EHS Professional(EHS Professional)	1	Active
Personal Protective Equipment (PPE)	1	Warehouse Associate(213002), Warehouse Person(231010), Warehouse Clerk(391044), Warehouse Coordinator(391107), Warehouse 1(392002), Warehouse A(453001), Warehouse (Warehouse), Warehouse 2 (463002), Accounting(Accounting), Administration(Administration), Apprentice Program(Apprentice Program), Assembly(Assembly), Auditors / Inspectors(Auditors / Inspectors), Continuous Improvement(Continuous Improvement), Customer Service(Customer Service), EHS Professionals(EHS Professionals), EHS Council(EHS Council), Engineering(Engineering), Finance(Finance), First Responders - Medical(First Responders - Medical), First Responders - Spill/Release(First Responders - Spill/Release), Hourly Employees(Hourly Employees), Human Resources(Human Resources), Information Technology(Information Technology), Inventory Control(Inventory Control), Legal(Legal), Machining(Machining), Maintenance(Maintenance), Manager(Manager), Management / Executive(Management / Executive), Manufacturing - Other(Manufacturing - Other), Planning(Planning), Purchasing(Purchasing), Quality(Quality), Salary Employees(Salary Employees), Sales / Marketing(Sales / Marketing), Service Center(Service Center), Shipping/Receiving(Shipping/Receiving), Sourcing(Sourcing), Supervisor(Supervisor), Supply Chain - Other(Supply Chain - Other), Welding(Welding), EHS(EHS), EHS Professional(EHS Professional)	1	Active

Corrective and Preventive Actions

- » Corrective and Preventive Action Notification
- » CAPA Tracking, Trending, and Reporting (Overdue Reporting)

Employee Training

- » Training Tracking and Notification (Scheduled, Completed, Overdue)
- » Training Notification to Manager / Supervisor

EASIER - EH&S Data Management

Incident Management

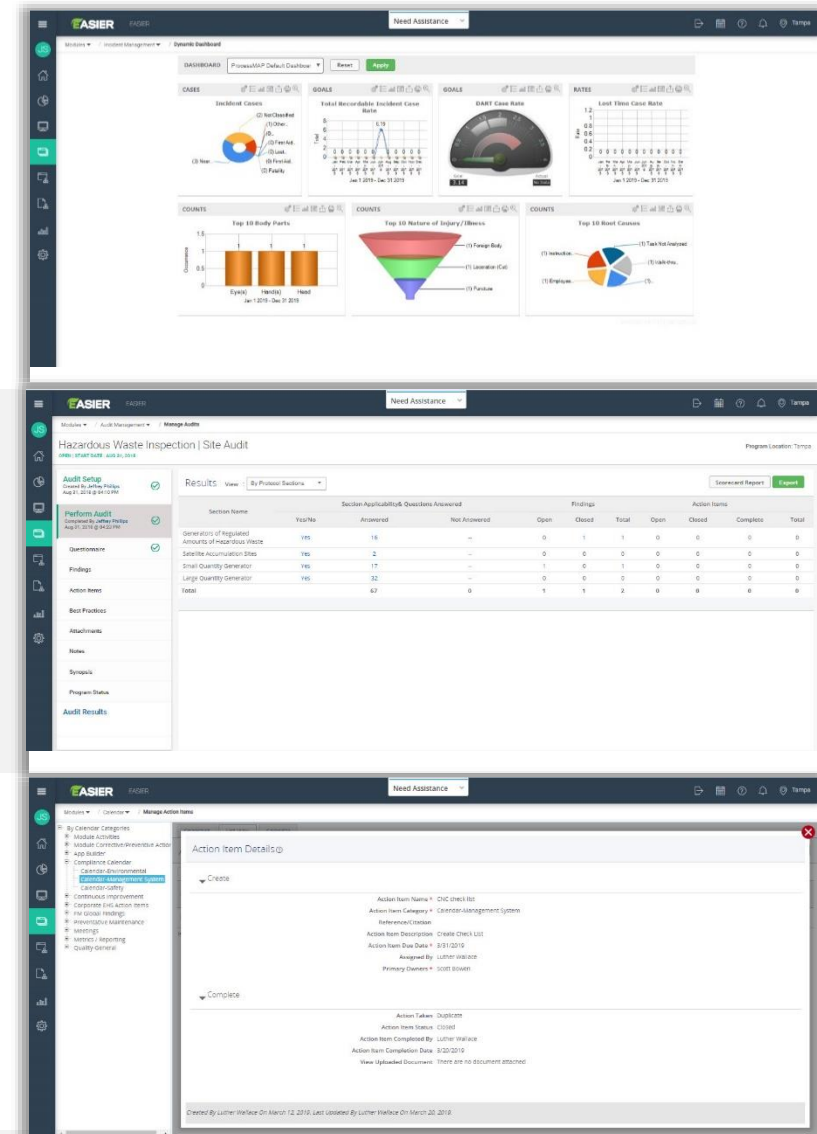
- » Simplified Incident Reporting with Notifications
- » Injury and Illness Metrics Tracking, Trending, and Reporting
- » OSHA Recordkeeping

Audit Management

- » Simplified Audit Completion, including the Audit App (Android and iOS)
- » Audits Tracking and Trending
- » Corporate Assurance Review / EHSMS Auditing

Compliance Management

- » Integrated EH&S Compliance Calendar and Actions Tracking
- » Environmental Metrics Tracking, Trending, and Reporting
- » EH&S Actions Tracker Management, Tracking, and Reporting
- » Regulatory Events (Audits/Inspections) Management



EASIER - EH&S Data Management

Performance Management

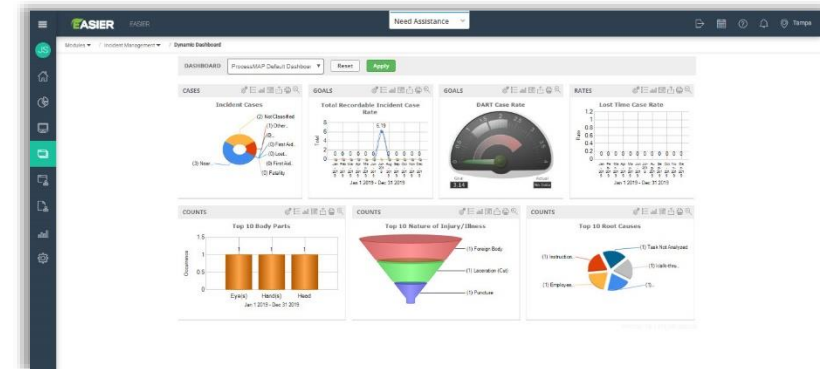
- » Environmental and Safety Metrics Reporting
- » Sustainability Metrics, Tracking, Trending, and Reporting
- » Data Conversion into Standard Units of Measurement

Change Management

- » Integrated Management of Change with Approval Work Flows and Notifications
- » Multi-Layer Approval System, incl. Conditional Approvals
- » Approval and Actions Tracking, Trending, and Reporting

Form-Based Data Collection and Management

- » Replaces Paper Documentation with Electronic Data
- » Create Custom Forms and Assign / Track Actions
- » Conduct Assessments and Evaluations via Mobile Apps



The screenshot shows the EASIER Change Management 'MOC Request List' table. The table lists various MOC requests with columns for MOC Number, Request Title, Department, Date of Request, Request Status, and various approval stages (e.g., EHS Manager Review Status, Engineering Manager Status, Operation Manager Status, Supply Chain Manager Status, General Plant Manager Status, Final Approval Status). The table includes a search bar and a 'Show: 10 entries' indicator at the bottom.

MOC Number	Request Title	Department	Date of Request	Request Status	EHS Manager Review Status	Engineering Manager Status	Operation Manager Status	Supply Chain Manager Status	General Plant Manager Status	Final Approval Status	Date of Review / Approval	Request Status	No. Of Action Items	Closed Action Items	Open Action Items
US-Temp-19-00-1015	New Chemical Request for Release 1	R&D	Jul 10, 2019	Pending Review	NA	NA	NA	NA	NA	Approved	Jul 10, 2019	Closed	1	1	0
US-Temp-19-00-1020	New Plant for PVC (General)	Manufacturing	Jan 22, 2019	Reviewed	NA	NA	NA	NA	NA	Approved	Jan 22, 2019	Closed	0	0	0
US-Temp-19-00-1021	Allylbenzene (Phenyl) Release Status Specification	Product Testing	Jul 24, 2019	Reviewed	NA	NA	NA	NA	NA	Approved	Jul 24, 2019	Closed	0	0	0
US-Temp-19-00-1024	New Crane for QA	Quality / Inspection	Apr 04, 2019	Reviewed	Pending Approval	NA	Pending Approval	NA	NA	Pending Approval	Apr 04, 2019	Open	0	0	0
US-Temp-19-00-1025	Dr. Design Engineer	R&D	Feb 21, 2019	Reviewed	NA	Approved with Conditions	Pending Approval	NA	NA	Approved with Conditions	Feb 21, 2019	Open	1	0	1
US-Temp-19-00-1026	WC2019 Tunnel Lining	Manufacturing	Dec 29, 2017	Reviewed	NA	NA	NA	NA	Approved	Approved	Dec 29, 2017	Closed	1	1	0

The screenshot displays the EASIER App Builder interface, which provides a grid of various assessment and inspection forms. These include 'Confined Space Assessment', 'Ladder Inspection Checklist', 'Job Safety Analysis', 'Job Work Permit', 'Permit Management', 'Powered Industrial Truck Inspection (Battery)', 'Safety Committee Meetings', 'Pre-Startup Safety Review', 'PPE Budget Plan', and 'Proactive Observation'. Each form has a 'Complete Form' button and a status indicator (e.g., 'Complete Form', 'Pending Review'). The interface includes a sidebar with navigation icons and a top navigation bar with the EASIER logo and user information.

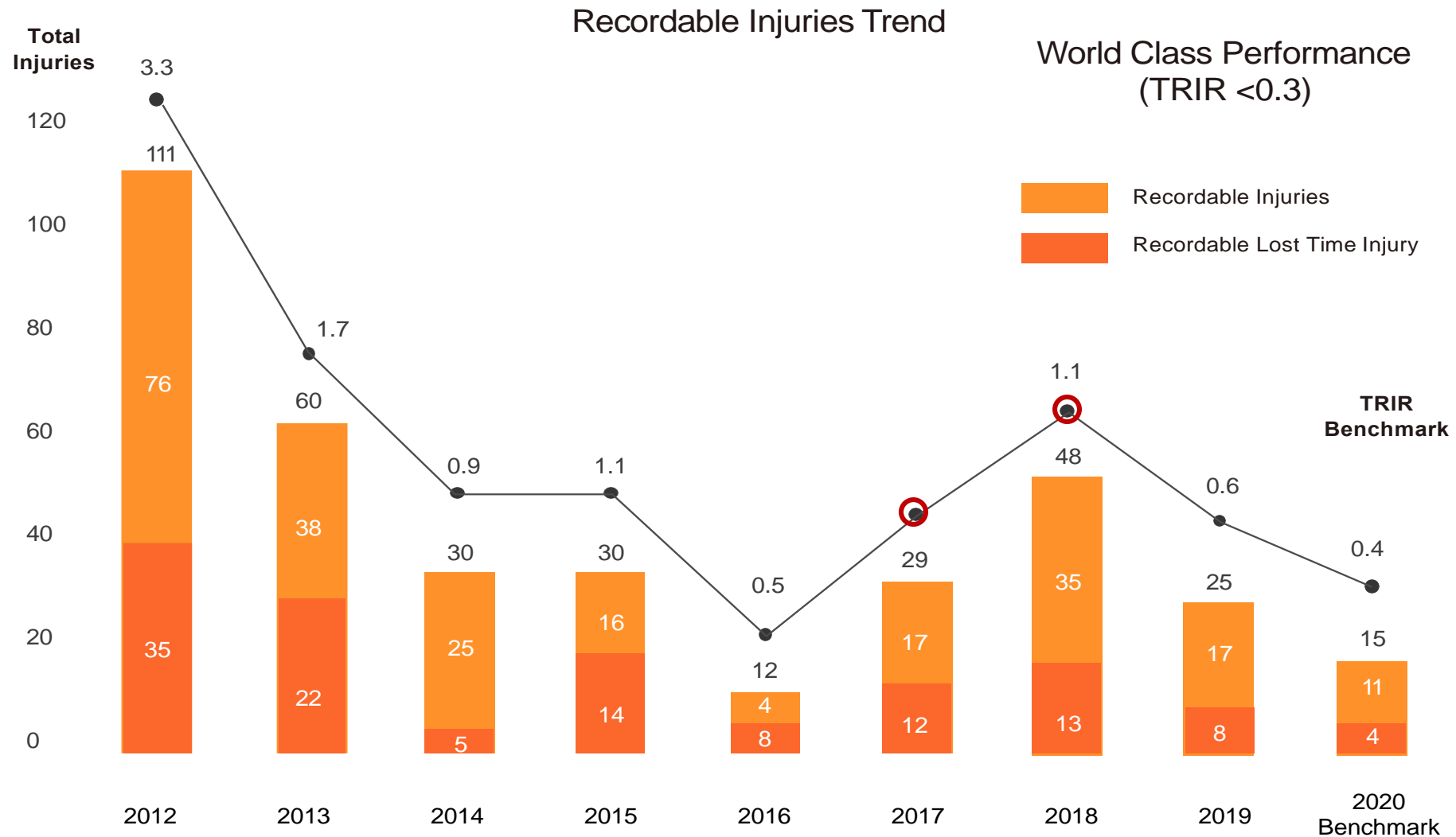
EASIER - EH&S Data Management

Overall Benefits to the CIRCOR EHSMS

- » Increases and Promotes Transparency / Drives Accountability
 - Increased Visibility to Compliance Issues
 - Traceability to Corrective and Preventive Action – Real-time visibility to open and closed CAPAs
 - Improved Management Oversight
- » Improves Employee Engagement
 - Immediate Employee Communication and Feedback / Help Chain
- » Risk Management and EH&S Planning
 - Risk Assessment – Analysis and Process Management
 - Change Management and Budget Planning Processes
- » Enhanced EH&S Reporting
 - Trending of EH&S Findings
 - Overdue Notifications
 - No More Paper Records to Lose

EH&S Solutions Made
EASIER

The CIRCOR Journey – By The Numbers



Looking Ahead...

Embracing Technology for Current and Future Needs

- » Promote Technology Partnerships that Drive Success
- » CIRCOR and ProcessMAP Relationship
- » Streamlining EH&S Systems and Processes
- » Paper to Digital Transformation
- » Custom Apps for Web and Mobile via ProcessMAP AppBuilder™
- » Real-Time Notification and Feedback on a Global Scale
- » Mobile Learning

Flexibility for Future Expansion and Growth

- » Adaptability for Organizational Changes – Mergers, Acquisition, and Divestitures
- » On Demand Analytics via Insight™
- » Updates and Enhancements adapted to new technology and innovations



Digital Transformation through ProcessMAP AppBuilder

ProcessMAP AppBuilder™



- » Create and Launch Apps in Minutes
 - Allows you to build custom apps for web and mobile availability without any need of programming skills.
- » Mobile Ready Apps
 - Forms created via the web are automatically available on both web and mobile without any delay
- » Flexible and Powerful
 - Allows user to create new apps and modify existing ones as per your business needs
- » Secure and Permissions Driven
 - Provides an intuitive way to assign security permissions on the fly and make business logic decisions accordingly.
- » Easy Sharing of Apps
 - Enables you to share apps/forms with users, locations, roles, etc.
- » Integration with ProcessMAP Platform
 - Facilitates transparent data flow to and from the ProcessMAP Platform
- » Never Miss a Deadline
 - Stay up to date with notifications generated when Action Items are due

Ready-to-Use Apps



CONFINED SPACE ASSESSMENT

Confined spaces are some of the most deceptive workplace hazards. What looks like a "normal" space could lack adequate oxygen or is filled with hazardous gases.

ProcessMAP's Confined Space Assessment app is designed to help employer's not only identify confined spaces, as defined by OSHA's Permit-Required Confined Spaces rules for general industry employers, but also to determine if the confined space is a Permit-Required Confined Space or not.

Key Features

- Configurable - Modify to Fit Specific Business Needs
- Mobile Online and Offline Capabilities
- Ability to Customize Notifications
- Export Records in Excel and PDF Format
- Upload Pictures and Attachments
- Create and Assign Action Items

Key Benefits

- One-stop solution to Assess and Identify Confined Spaces using Built-in Checklist
- Easily differentiate between Permit-Required and Non-Permit Confined Spaces
- Quickly Identify Associated Hazards
- Flexibility to specify controls for reclassifying permit-required confined spaces

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LADDER INSPECTION CHECKLIST

Falls from ladders are one of the leading causes of occupational injuries. Ladder inspections can help ensure ladders are free from damage and safe work practices are followed.

ProcessMAP's Ladder Inspection app is designed to help employees evaluate the condition of ladders and flag ladders needing repair prior to use.

The Ladder Inspection app is built by EHS experts and allows clients to customize the checklist with company specific ladder inspection and out-of-service requirements.

Key Features

- Configurable - Modify to Fit Specific Business Needs
- Mobile Online and Offline Capabilities
- Ability to Customize Notifications
- Export Records in Excel and PDF Format
- Upload Pictures and Attachments

Key Benefits

- One-stop solution to assess the Condition of Fixed, Specialty, and Portable Ladders using the customizable, built-in checklist
- Easily Identify Ladders to be removed from service using configurable business rules

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HOT WORK PERMIT

Hot Work Permits are a vital element in all hot work management programs. Using a Hot Work Permit helps to ensure areas and work practices are checked, inspected, and cleaned prior to the start of hot work activities, thereby reducing the risk of fire in areas where there are flammable or combustible materials.

The ProcessMAP Hot Work Permit app is built by EHS experts and allows clients to customize the checklist with company specific hot work management program requirements.

Key Features

- Configurable - Modify to Fit Specific Business Needs
- Mobile Online and Offline Capabilities
- Ability to Customize Notifications
- Export Records in Excel and PDF Format
- Upload Pictures and Attachments

Key Benefits

- Standardize workplace safety and document adherence to the hot work management program
- Easily assess an area and work practices before permitting/performing hot work using the customizable, built-in checklist
- Pro-actively Manage and document permits, including expirations, using the in-app verification step

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LOCKOUT/TAGOUT AUDIT

The Lockout/ Tagout Audit app helps companies to maintain OSHA compliance by ensuring completion of annual audits on every machine-specific Lockout/ Tagout procedure. Users can easily conduct inspections of one or more authorized persons assessing their knowledge and the effectiveness of the procedures implemented. Corrective actions may be assigned and managed to closure to help ensure workplace safety and compliance.

The Lockout/ Tagout Audit app is built by EHS experts and allows clients to customize the checklist with company specific requirements.

Key Features

- Configurable - Modify to Fit Specific Business Needs
- Mobile Online and Offline Capabilities
- Ability to Customize Notifications
- Export Records in Excel and PDF Format
- Create and Assign Action Items

Key Benefits

- One-stop solution to assess the Knowledge of Authorized Persons and the procedural status for the Lockout/ Tagout of equipment using configurable, built-in checklist
- Proactively specify owners and due dates of identified corrective actions and track to closure
- Quickly generate PDF reports with all elements required to verify periodic Lockout/ Tagout procedure when inspections are conducted

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LOCKOUT/TAGOUT PERMIT

Lockout/ Tagout (LOTO) Permits are a key element of LOTO programs helping to insure equipment maintenance operations are completed safely. Implementation of a safe work permit system can help reduce the risk of serious injuries or death caused by accidental operation of equipment.

Issue and manage LOTO permits in the work area

Key Features

- Configurable - Modify to Fit Specific Business Needs
- Mobile Online and Offline Capabilities
- Ability to Customize Notifications
- Export Records in Excel and PDF Format
- Upload Pictures and Attachments

Key Benefits

- Drive consistency in permit activities across an organization
- Easily Configure LOTO determination checklist and business rules to mirror organization's LOTO program
- Quickly select from pre-defined or customer-specific controls to identify and communicate precautions to be observed and the required PPE
- Proactively configure Permit Review/ Approval process and Closeout Authorization helps to standardize the process and improve safety and compliance

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Ready-to-Use Apps

MACHINE GUARDING ASSESSMENT

Operating machinery and equipment without proper guarding can result not only in workplace injuries, but also downtime, losses in production, and an increase in workers' compensation premiums.

ProcessMAP's Machine Guarding Assessment app is designed to help employees assess machine guarding to identify risks and manage corrective actions, reducing the likelihood of workplace injuries while helping to maximize productivity. The app provides a configurable checklist allowing organizations to assess compliance and risk based on regulations, industry standards, and company procedures.

Key Features

- Configurable - Modify to Fit Specific Business Needs
- Mobile Online and Offline Capabilities
- Ability to Customize Notifications
- Export Records in Excel and PDF Format
- Create and Assign Action Items

Key Benefits

- Easily assess machine guarding using configurable built-in checklist to identify deficiencies
- One stop shop to create and manage action items to closure, reducing the risk of injuries and maintaining productivity
- Ensure compliance with regulations, industry standards, and company requirements

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POWERED INDUSTRIAL TRUCK INSPECTION (ELECTRIC)

ProcessMAP's Powered Industrial Truck Inspection (Electric) app helps to ensure pre-operation and operational inspections are conducted by electric forklift operators. These inspections are critical in ensuring forklifts operate safely and equipment is placed out of service when deficiencies are discovered.

The app provides a configurable checklist allowing operators to easily assess the condition of the forklift and immediately notify operators when a vehicle should be placed out of service due to a deficiency. In addition, the app provides the ability to quickly retrieve and review inspection records.

Key Features

- Configurable - Modify to Fit Specific Business Needs
- Mobile Online and Offline Capabilities
- Ability to Customize Notifications
- Export Records in Excel and PDF Format

Key Benefits

- Easily conduct pre-operation and operational inspections of electric forklifts using a configurable, built-in checklist
- Quickly be alerted when deficiencies require a forklift to be put out of service
- Ensure forklifts are examined at least daily before being placed in service
- Easily retrieve and review inspection records using the configurable list screen

www.processmap.com **ProcessMAP**

POWERED INDUSTRIAL TRUCK INSPECTION (DIESEL, LPG & GAS)

ProcessMAP's Powered Industrial Truck Inspection (Diesel, LPG, & Gas) app helps to ensure pre-operation and operational inspections are conducted by forklift operators. These inspections are critical in ensuring forklifts operate safely and equipment is placed out of service when deficiencies are discovered.

The app provides a configurable checklist allowing operators to easily assess the condition of the forklift and immediately notify operators when a vehicle should be placed out of service due to a deficiency. In addition, the app provides the ability to quickly retrieve and review inspection records.

Key Features

- Configurable - Modify to Fit Specific Business Needs
- Mobile Online and Offline Capabilities
- Ability to Customize Notifications
- Export Records in Excel and PDF Format

Key Benefits

- Easily conduct pre-operation and operational inspections of diesel, LPG, and gas forklifts using a configurable, built-in checklist
- Quickly be alerted when deficiencies require a forklift to be put out of service
- Ensure forklifts are examined at least daily before being placed in service
- Easily retrieve and review inspection records using the configurable list screen

www.processmap.com **ProcessMAP**

PPE HAZARD ASSESSMENT CERTIFICATION

Failure to adequately assess the workplace for potential hazards and identify the required personal protective equipment (PPE) results in thousands of injuries every year. To ensure employees are properly protected, employers must complete a PPE Assessment to identify all potential hazards and the PPE required when hazards can not be mitigated through the use of engineering, administrative, and work practice controls.

ProcessMAP's PPE Hazard Assessment Certification app is designed to help employers assess the workplace to determine if hazards are present, or are likely to be present, which necessitate the use of PPE. The app also provides the ability to identify required PPE and properly document the completion of the PPE Hazard Assessment Certification.

Key Features

- Configurable - Modify to Fit Specific Business Needs
- Mobile Online and Offline Capabilities
- Ability to Customize Notifications
- Export Records in Excel and PDF Format

Key Benefits

- Effectively perform multiple PPE Hazard Assessments based on the workplace, department, job, employee, or other criteria
- One-stop solution to identify which hazards are present, or are likely to be present, using configurable, built-in checklists
- Easily identify the required PPE based on the work activities and hazards identified using pre-defined or customer specific checklists
- Easy to manage and share PPE Hazard Assessment Certifications as needed
- Ensure compliance with OSHA's Hazard Assessment and Equipment Selection Requirements for Personal Protective Equipment

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PRE-STARTUP SAFETY REVIEW (PSSR)

The Pre-Startup Safety Review (PSSR) is a critical element of all Process Safety Management programs. The PSSR helps to ensure the new or modified process or facility is safe and operable before startup. Effectively conducted Pre-Startup Safety Reviews can prevent incidents, employee injuries, equipment damages, and downtime.

ProcessMAP's PSSR app helps organizations ensure unsafe conditions do not exist before a new or modified process or facility goes into operation through the use of configurable, built-in checklists, the ability to identify deficiencies and recommendations, and action item tracking to completion.

Key Features

- Configurable - Modify to Fit Specific Business Needs
- Mobile Online and Offline Capabilities
- Ability to Customize Notifications
- Export Records in Excel and PDF Format
- Upload Pictures and Attachments
- Create and Assign Action Items

Key Benefits

- One-stop solution to assess and validate safety elements using configurable, built-in checklist
- Ability to base checklists on one or multiple change types ensuring the correct elements are reviewed and validated prior to start-up
- Allows for a team-based approach ensuring an appropriate multi-disciplined team of personnel participate in the PSSR and follow-up actions
- Ability to assign and track action items to closure

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Ready-to-Use Apps

PERMIT MANAGEMENT

Tracking permit requirements can be difficult, especially for large companies that require multiple permits to operate. With real-time visibility to compliance status and automated task management, ProcessMAP's solution takes the guess work out of permits management – mitigating costly fines and penalties while increasing efficiency.

ProcessMAP's Permits Management app provides a central repository for storing and tracking permit related data, including conditions, required tasks, renewal dates, and costs. With the ability to automate notifications, the right stakeholders can quickly identify and remediate compliance risks.

Key Features

- Configurable - Modify to Fit Specific Business Needs
- Mobile Online and Offline Capabilities
- Ability to Customize Notifications
- Export Records in Excel and PDF Format
- Upload Pictures and Attachments
- Create and Assign Action Items

Key Benefits

- One stop shop to store permit requirements, such as conditions, expiration dates, and supporting documentation in one place
- Easily View and Manage the Full Permit Cycle using the configurable list screen
- Assign and track action items to closure

www.processmap.com

ProcessMAP

DRIVER'S VEHICLE INSPECTION REPORT

The Federal Motor Carrier Safety Administration (FMCSA) requires drivers to inspect and ensure motor vehicles are in safe operating condition prior to their operation.

ProcessMAP's Driver's Vehicle Inspection Report (DVIR) app is designed specifically for use with straight trucks, step vans or school buses. The app allows drivers to quickly and easily document inspections, report defects, and review previous inspection records directly from their mobile device. Defect reports can be routed to maintenance for review and certification of repairs, and all inspection records are stored and available as needed.

Key Features

- Configurable - Modify to Fit Specific Business Needs
- Mobile Online and Offline Capabilities
- Ability to Customize Notifications
- Export Records in Excel and PDF Format
- Upload Pictures and Attachments

Key Benefits

- One-stop solution to identify defective items identified during inspection using configurable, built-in checklists
- Easily upload pictures during inspection to document defective items and/or damage
- Ability to automate notifications of unsatisfactory conditions directly to maintenance personnel
- Quickly retrieve completed inspections using built-in filters
- Helps satisfy D.O.T. vehicle inspection requirements and reduce the risk of compliance violations

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JOB SAFETY ANALYSIS

Job Safety Analyses (JSA) not only help to reduce the potential for injuries by following a systematic approach to identifying and mitigating hazardous conditions associated with a job, but also increase production efficiency, improve communication, aid in employee training, and meet safety requirements.

ProcessMAP's JSA app enables users to mitigate potential hazards in the workplace by breaking down jobs into smaller tasks/activities, identifying hazardous conditions, and making recommendations for the safest way to do a job. The app also allows users to assign and manage preventive and corrective actions to ensure appropriate controls are put in place.

Key Features

- Configurable - Modify to Fit Specific Business Needs
- Mobile Online and Offline Capabilities
- Ability to Customize Notifications
- Export Records in Excel and PDF Format
- Create and Assign Action Items

Key Benefits

- Evaluate jobs to improve both safety and efficiency
- Easily break down jobs into individual tasks improving the ability to identify risks and mitigate hazards
- Effectively communicate the proper, risk-free steps to complete each job
- Assign and track action items to closure

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SAFETY OBSERVATION

Safety Observation Programs can assist organizations in significantly lowering risk and improving safety through the identification and mitigation of unsafe acts and conditions.

ProcessMAP's Safety Observation app helps users to easily identify both hazards and unsafe behaviors, as well as, provide recommendations to mitigate the unsafe condition or act.

Key Features

- Configurable - Modify to Fit Specific Business Needs
- Mobile Online and Offline Capabilities
- Ability to Customize Notifications
- Export Records in Excel and PDF Format
- Upload Pictures and Attachments
- Create and Assign Action Items

Key Benefits

- Conduct observations of any number of jobs or areas
- Utilize the built-in behavior and hazard checklists with the flexibility to customize to mirror an organization's requirements and culture
- Provide employees the ability to give recommendations to reduce or eliminate risk and improve safety
- Easily view and manage observations using the configurable list screen
- Assign and track action items to closure

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SECURITY INCIDENTS

Employers must be cognizant of the potential for security issues to help ensure the safety and security of their employees. To combat the potential for workplace violence, trespassing, vandalism and other security-related incidents, employers must have processes in place for the reporting, response, investigation, and management of security incidents.

ProcessMAP's Security Incidents app enables users to streamline the management of security incidents from the initial report and response through the investigation and closure.

Key Features

- Configurable - Modify to Fit Specific Business Needs
- Mobile Online and Offline Capabilities
- Ability to Customize Notifications
- Export Records in Excel and PDF Format
- Upload Pictures and Attachments
- Create and Assign Action Items

Key Benefits

- Easily report and track security incident response and management activities
- Control access to records per business requirements
- Document individuals involved, including victims, witnesses, responding emergency personnel, and others
- Record investigation details, including interviews and other evidence
- Assign and track action items to closure

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Ready-to-Use Apps

DRIVER'S VEHICLE INSPECTION REPORT (CSA PRE-TRIP)

Inspect Tractor Trailers and Tanker Trucks

The Federal Motor Carrier Safety Administration (FMCSA) requires drivers to inspect and ensure motor vehicles are in safe operating condition prior to their operation.

ProcessMAP's Driver's Vehicle Inspection Report (DVIR) app is designed specifically for use with tractor trailers and tanker trucks. Included in the app is a checklist including the Behavior Analysis and Safety Improvement Categories (BASICS) to help ensure carrier and driver compliance with FMCSA's Compliance, Safety, Accountability (CSA) program. The app allows drivers to quickly and easily document inspections, report defects, and review previous inspection records directly from their mobile device. Defect reports can be routed to maintenance for review and certification of repairs, and all inspection records are stored and available as needed.

Key Features

- Configurable - Modify to Fit Specific Business Needs
- Mobile Online and Offline Capabilities
- Ability to Customize Notifications
- Export Records in Excel and PDF Format
- Upload Pictures and Attachments

Key Benefits

- One-stop solution to identify defective items identified during inspection using configurable, built-in checklists
- Ensure compliance with the FMCSA's Compliance, Safety, Accountability (CSA) program prior to vehicle operation
- Easily upload pictures during inspection to document defective items and/or damage
- Ability to automate notifications of unsatisfactory conditions directly to maintenance personnel
- Quickly retrieve completed inspections using built-in filters
- Helps satisfy D.O.T. vehicle inspection requirements and reduce the risk of compliance violations

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DRIVER'S VEHICLE INSPECTION REPORT (LIGHT DUTY)

Inspect Pickup Trucks and Light Duty Vans

The Federal Motor Carrier Safety Administration (FMCSA) requires drivers to inspect and ensure motor vehicles are in safe operating condition prior to their operation.

ProcessMAP's Driver's Vehicle Inspection Report (DVIR) app is designed specifically for use with pickup trucks and light duty vans. The app allows drivers to quickly and easily document inspections, report defects, and review previous inspection records directly from their mobile device. Defect reports can be routed to maintenance for review and certification of repairs, and all inspection records are stored and available as needed.

Key Features

- Configurable - Modify to Fit Specific Business Needs
- Mobile Online and Offline Capabilities
- Ability to Customize Notifications
- Export Records in Excel and PDF Format
- Upload Pictures and Attachments

Key Benefits

- One-stop solution to identify defective items identified during inspection using configurable, built-in checklists
- Easily upload pictures during inspection to document defective items and/or damage
- Ability to automate notifications of unsatisfactory conditions directly to maintenance personnel
- Quickly retrieve completed inspections using built-in filters
- Helps satisfy D.O.T. vehicle inspection requirements and reduce the risk of compliance violations

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DRIVER'S VEHICLE INSPECTION REPORT (NON D.O.T.)

Inspect Cars, Pickup Trucks, and SUVs

Reduce the risk of trouble on the road and eliminate downtime and unscheduled maintenance by ensuring vehicles are road-worthy and safe prior to operation.

ProcessMAP's Driver's Vehicle Inspection Report (DVIR) app for Non-D.O.T. vehicles provides drivers the ability to take a close look at their vehicle components to ensure they are in a safe operating condition prior to getting on the road. The app also helps to ensure drivers have the correct safety equipment and PPE before leaving for their destination.

Avoid costly emergency repairs, reduce the opportunity for incidents, and gain peace of mind by ensuring all fleet vehicles are road worthy.

Key Features

- Configurable - Modify to Fit Specific Business Needs
- Mobile Online and Offline Capabilities
- Ability to Customize Notifications
- Export Records in Excel and PDF Format
- Upload Pictures and Attachments

Key Benefits

- One-stop solution to identify defective items identified during inspection using configurable, built-in checklists
- Easily upload pictures during inspection to document defective items and/or damage
- Quickly retrieve completed inspections using built-in filters

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Thank You

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April 2



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