E-tools For OHS Risk Management

JSA/JHA cloud-based applications and tools

Introduction

- E-tools are a significant emerging trend in OHS Management
  - Wearables - heat stress, heart rate, shock sensors
  - Artificial Intelligence – Videocam input
  - Cloud-based JHA Relational Database Applications – Our focus of this presentation
- Kevin Lehner CHMM, EMS-LA Background & Experience
- E-tools & OHS Management Systems
  - Recent Harvard & Duke Research Supporting OHS Management Systems Approach
  - Best OHSMS use PDCA, are well organized to produce evidence quickly during audits.
  - Cloud-based apps make great things happen to OHSMS

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Part 1 Planning - Identifying & Prioritizing OHS Hazards with JHA

JHA Definition OSHA (2002)

- A job hazard analysis is a technique that focuses on job tasks as a way to identify hazards before they occur. It focuses on the relationship between the worker, the task, the tools, and the work environment. Ideally, after you identify uncontrolled hazards, you will take steps to eliminate or reduce them to an acceptable risk level.

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Background for JHA & Risk Assessment

- Job Hazard Analysis = Job Safety Analysis
- Inventory of OHS hazards for specific jobs (plan part of PDCA)
- Traditional JHA includes
  - The name of the job
  - A description of the hazard
  - A description of the control in place to "address" the risk
- JHA processes are beginning to use **modern risk assessment techniques**.
- The purpose of this presentation is **NOT** to teach you how to do ISO or a JHA
- The purpose also **NOT** to teach you how to do risk assessment.

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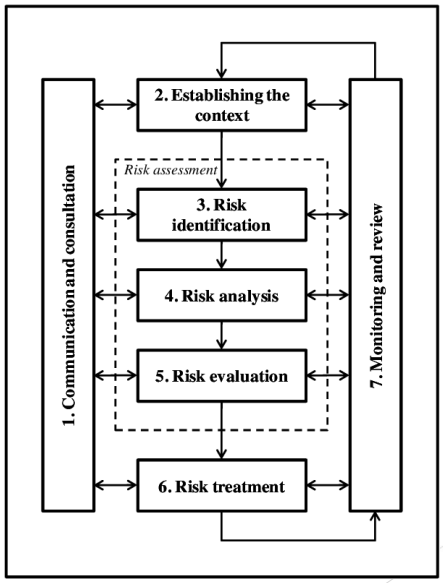
Risk Management Resources

- ISO 31000:2018 – Risk management - Guidelines
- ISO 31010:2019 – Risk - management – Risk assessment techniques
- Popov & Lyons book – Risk Management Tools for Safety Professionals
- ASSP and the National Safety Council – Webinars and Training



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Learning objectives

After this presentation you will be able to use a cloud-based application to:

- Record the results of your JHA.
- Assess OHS hazards and estimate risk.
- Apply the hierarchy of controls to estimated risk values
- Evaluate remaining estimated risk and determine if it is acceptable.
- Create risk reduction tasks to investigate and implement additional controls.
- Plan and execute OHS risk control internal audits.
- Follow-up on OHS audit findings.
- Communicate the progress of OHS risk management to leadership

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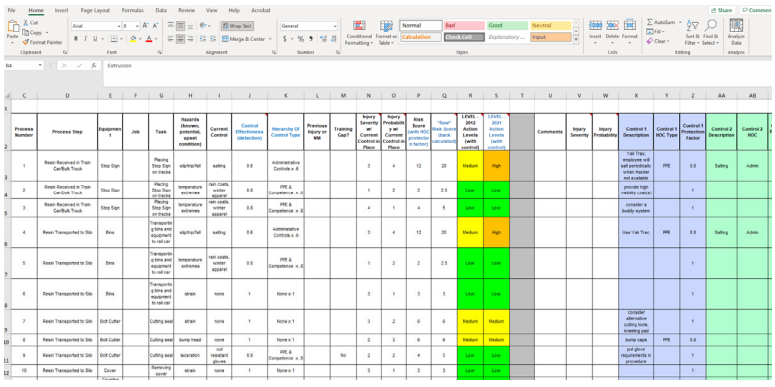
JHA Applications Vs Spreadsheets

- Example Excel format for JHA with semi quantitative risk assessment.



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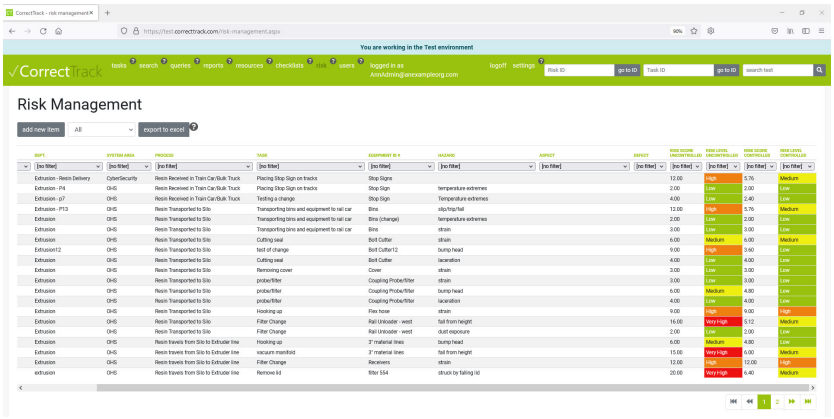
JHA/JSA Database Advantage

- Example of Database format



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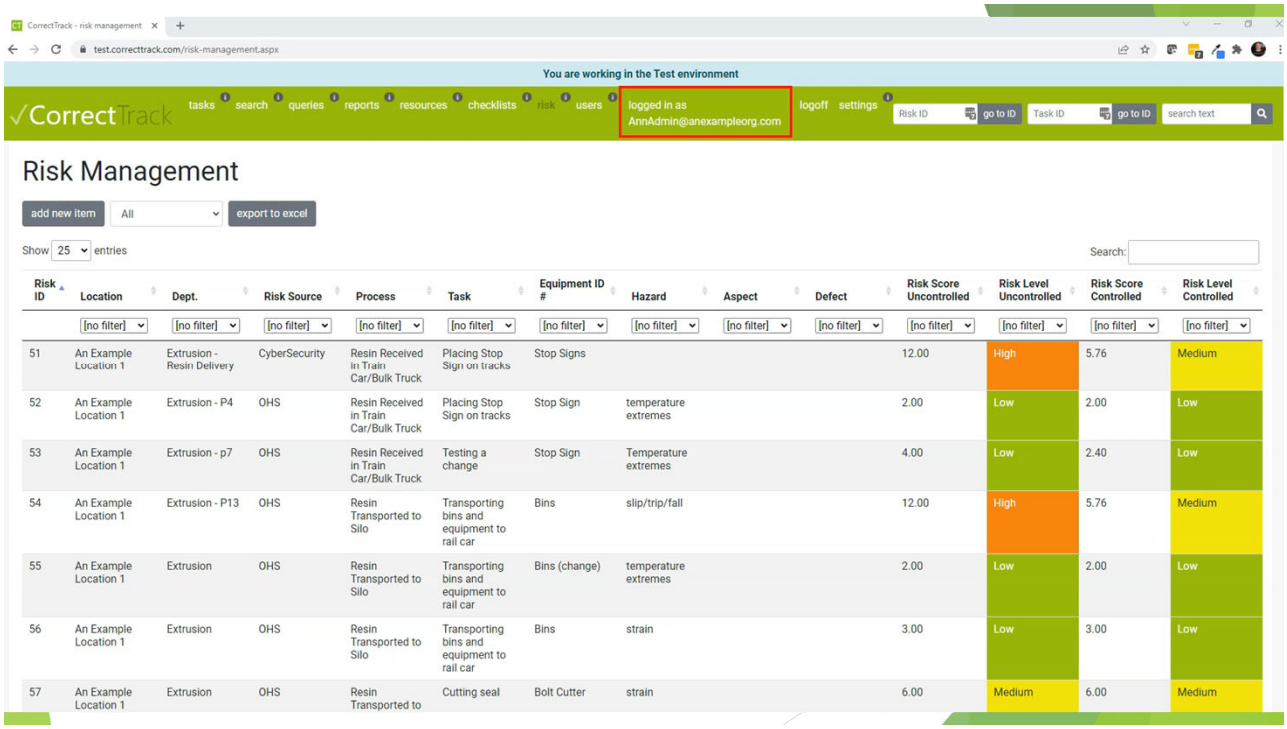
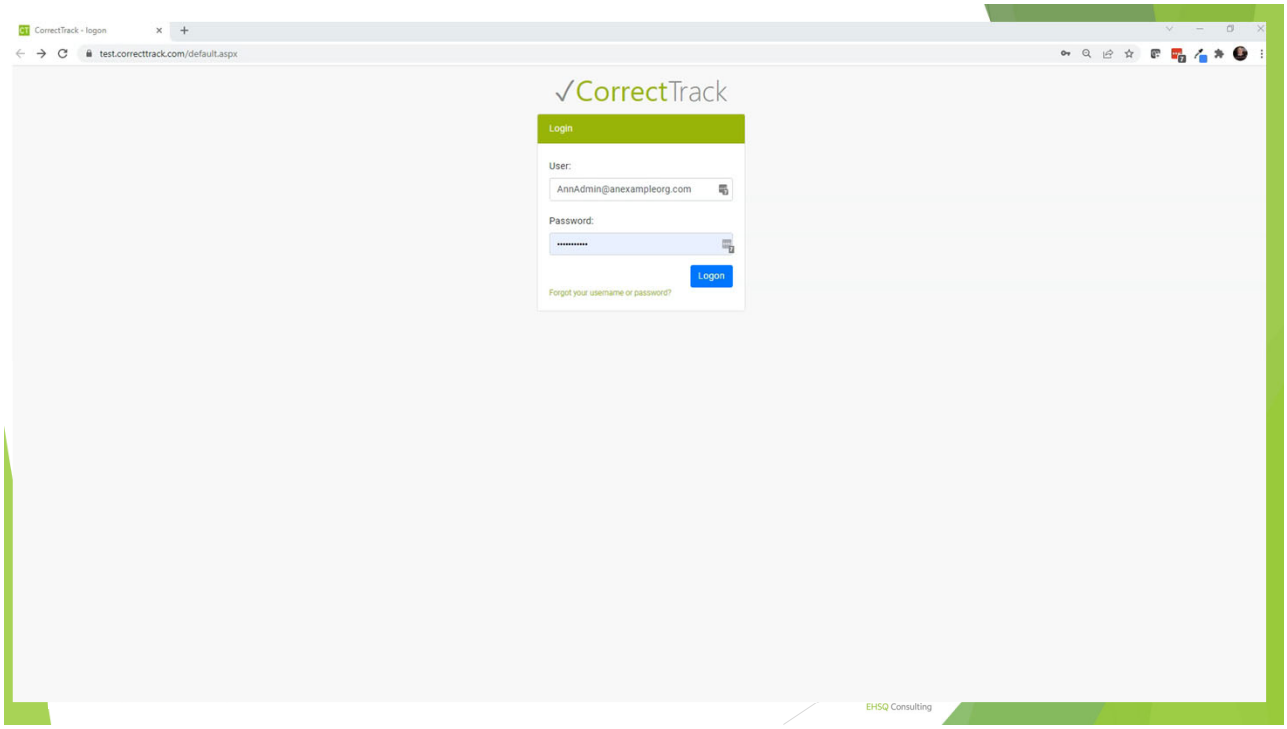
Entering Data

Uploaded – From excel spreadsheet

Entered directly into app by a user


CorrectTrack - risk management
test.correcttrack.com/risk-management.aspx
You are working in the Test environment
CorrectTrack
tasks search queries reports resources checklists risk users
logged in as AnnAdmin@anexampleorg.com
logoff settings
Risk ID go to ID Task ID go to ID search text
Risk Management
add new item All export to excel
Show 25 entries
Search:
Risk ID | Location | Dept. | Risk Source | Process | Task | Equipment ID # | Hazard | Aspect | Defect | Risk Score Uncontrolled | Risk Level Uncontrolled | Risk Score Controlled | Risk Level Controlled
51 | An Example Location 1 | Extrusion - Resin Delivery | CyberSecurity | Resin Received in Train Car/Bulk Truck | Placing Stop Sign on tracks | Stop Signs | | | | 12.00 | High | 5.76 | Medium
52 | An Example Location 1 | Extrusion - P4 | OHS | Resin Received in Train Car/Bulk Truck | Placing Stop Sign on tracks | Stop Sign | temperature extremes | | | 2.00 | Low | 2.00 | Low
53 | An Example Location 1 | Extrusion - p7 | OHS | Resin Received in Train Car/Bulk Truck | Testing a change | Stop Sign | Temperature extremes | | | 4.00 | Low | 2.40 | Low
54 | An Example Location 1 | Extrusion - P13 | OHS | Resin Transported to Silo | Transporting bins and equipment to rail car | Bins | slip/trip/fall | | | 12.00 | High | 5.76 | Medium
55 | An Example Location 1 | Extrusion | OHS | Resin Transported to Silo | Transporting bins and equipment to rail car | Bins (change) | temperature extremes | | | 2.00 | Low | 2.00 | Low
56 | An Example Location 1 | Extrusion | OHS | Resin Transported to Silo | Transporting bins and equipment to rail car | Bins | strain | | | 3.00 | Low | 3.00 | Low
57 | An Example Location 1 | Extrusion | OHS | Resin Transported to | Cutting seal | Bolt Cutter | strain | | | 6.00 | Medium | 6.00 | Medium


CorrectTrack - logon
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CorrectTrack
Login
User:
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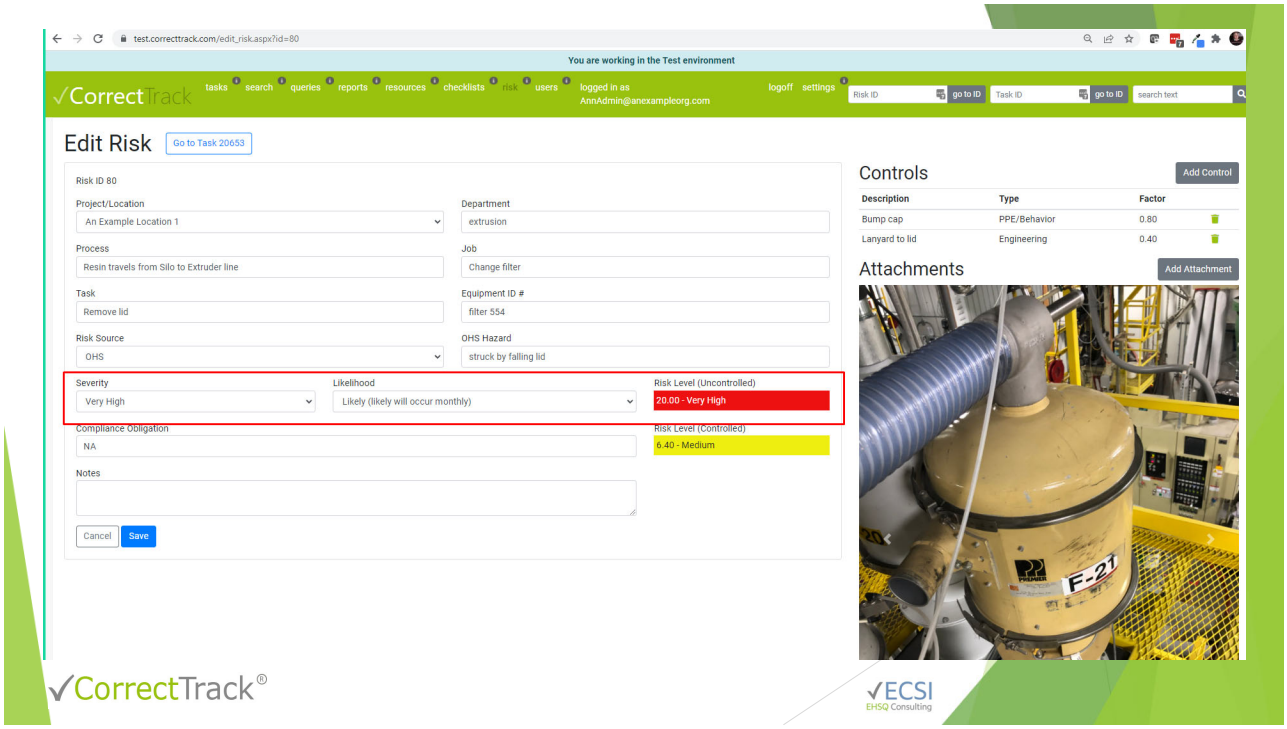
Password:
Logon
Forgot your username or password?
EHSQ Consulting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logoff settings
Risk ID go to ID
Task ID go to ID
search text
Edit Risk
Go to Task 20653
Risk ID 80
Project/Location
An Example Location 1
Department
extrusion
Process
Resin travels from Silo to Extruder line
Job
Change filter
Task
Remove lid
Equipment ID #
filter 554
Risk Source
OHS
OHS Hazard
struck by falling lid
Severity
Very High
Likelihood
Likely (likely will occur monthly)
Risk Level (Uncontrolled)
20.00 - Very High
Compliance Obligation
NA
Risk Level (Controlled)
6.40 - Medium
Notes
Cancel
Save
Controls
Add Control
Description
Type
Factor
Bump cap
PPE/Behavior
0.80
Lanyard to lid
Engineering
0.40
Attachments
Add Attachment
F-21
CorrectTrack®
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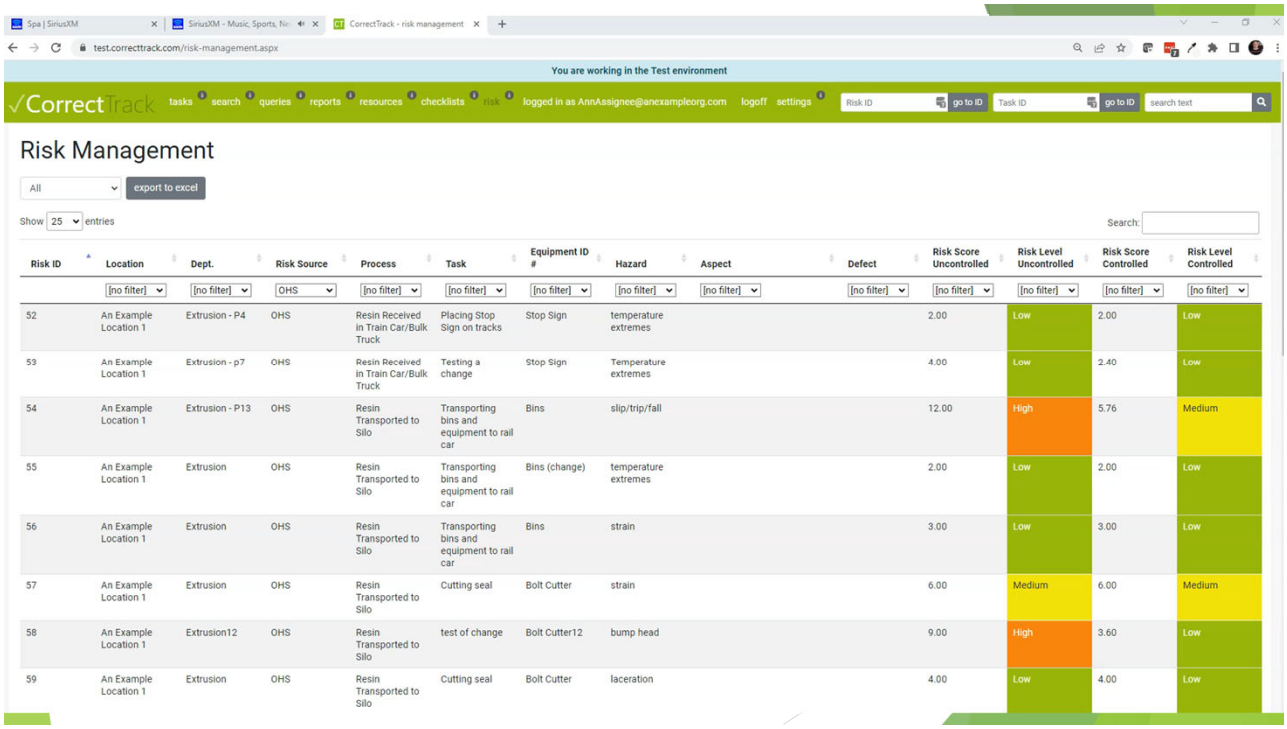
EHSQ Consulting


test.correcttrack.com/risk-management.aspx
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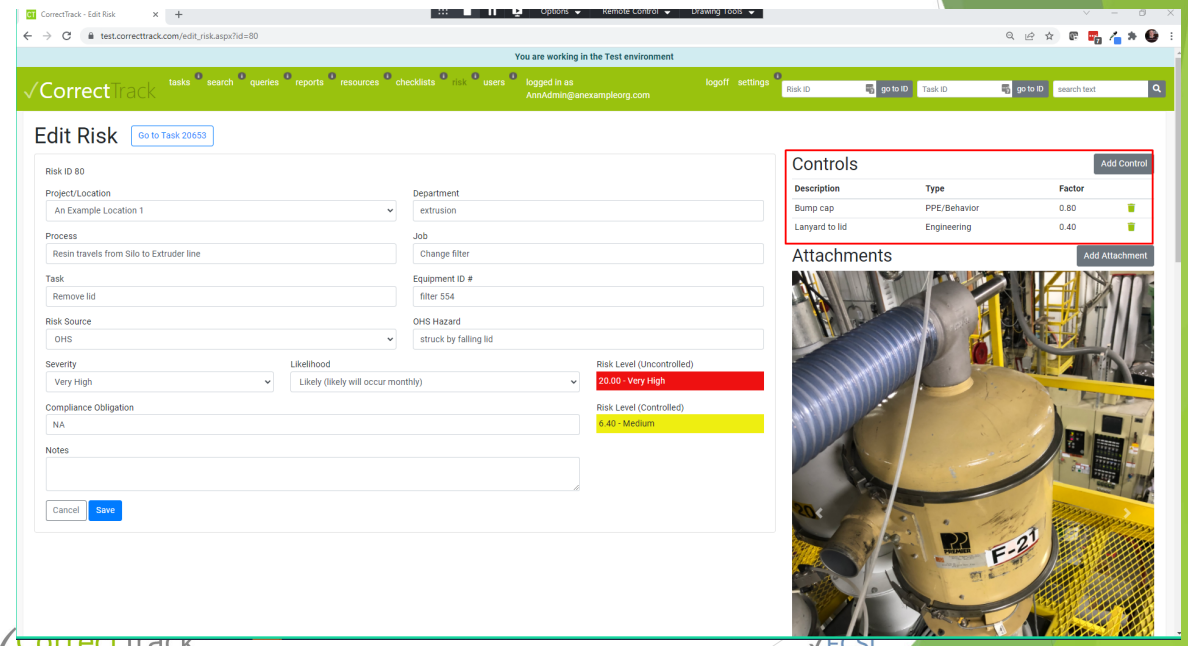
CorrectTrack
tasks search queries reports resources checklists risk
logged in as AnnAssignee@anexampleorg.com
logoff settings
Risk ID go to ID
Task ID go to ID
search text
Risk Management
All
export to excel
Show 25 entries
Search:
Risk ID
Location
Dept.
Risk Source
Process
Task
Equipment ID #
Hazard
Aspect
Defect
Risk Score Uncontrolled
Risk Level Uncontrolled
Risk Score Controlled
Risk Level Controlled
52 An Example Location 1 Extrusion - P4 OHS Resin Received in Train Car/Bulk Truck Placing Stop Sign on tracks Stop Sign temperature extremes 2.00 Low 2.00 Low
53 An Example Location 1 Extrusion - p7 OHS Resin Received in Train Car/Bulk Truck Testing a change Stop Sign Temperature extremes 4.00 Low 2.40 Low
54 An Example Location 1 Extrusion - P13 OHS Resin Transported to Silo Transporting bins and equipment to rail car Bins slip/trip/fall 12.00 High 5.76 Medium
55 An Example Location 1 Extrusion OHS Resin Transported to Silo Transporting bins and equipment to rail car Bins (change) temperature extremes 2.00 Low 2.00 Low
56 An Example Location 1 Extrusion OHS Resin Transported to Silo Transporting bins and equipment to rail car Bins strain 3.00 Low 3.00 Low
57 An Example Location 1 Extrusion OHS Resin Transported to Silo Cutting seal Bolt Cutter strain 6.00 Medium 6.00 Medium
58 An Example Location 1 Extrusion12 OHS Resin Transported to Silo test of change Bolt Cutter12 bump head 9.00 High 3.60 Low
59 An Example Location 1 Extrusion OHS Resin Transported to Silo Cutting seal Bolt Cutter laceration 4.00 Low 4.00 Low

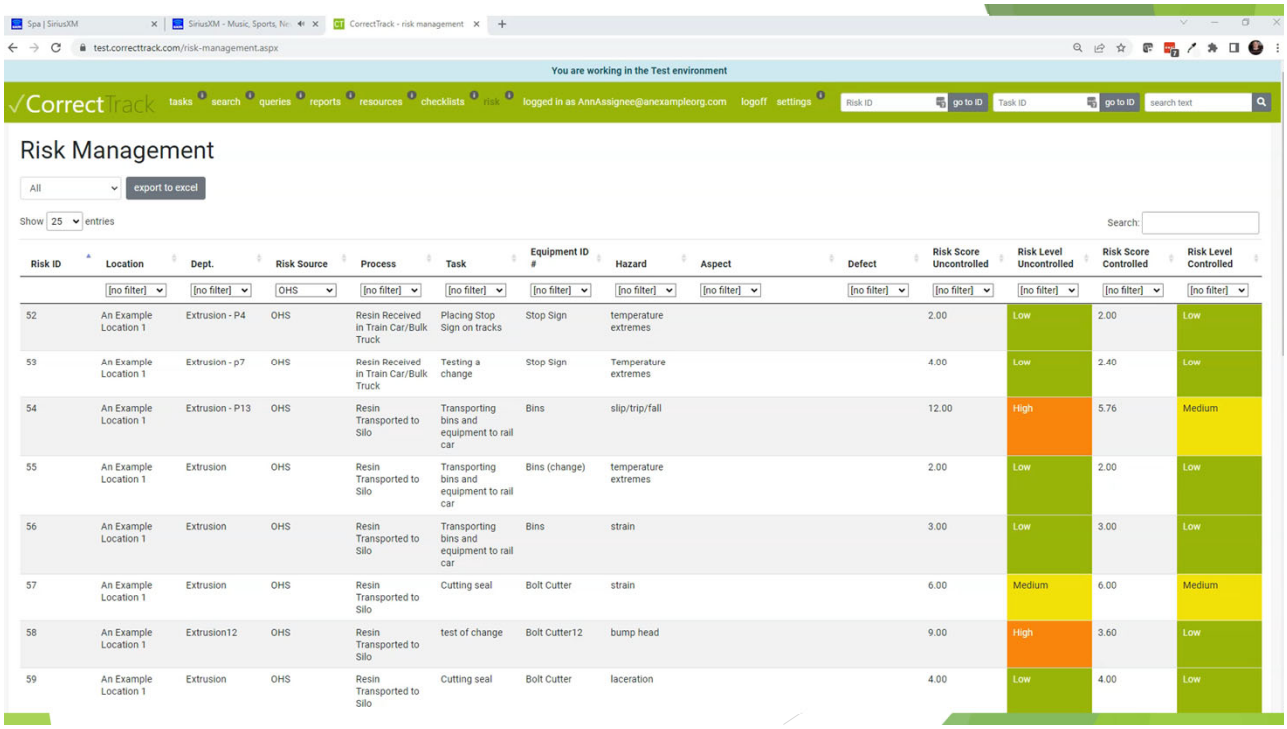


Apply HOC Protection Factors

	Hierarchy of Control	HOC Protection Factor (Multiply Risk By)
Most Effective	**Eliminate** the hazard	0.0 (100% risk score reduction)
	Substitute with less hazardous processes, operations, materials or equipment	0.2 (80% risk score reduction)
	Use of **Engineering Controls** and reoganization of work	0.4 (60% risk score reduction)
	Use **Administrative Controls** in-cludign training	0.6 (40% risk score reduction)
	Use adaquate personal protective equipment (PPE)	0.8 (20% risk score reduction)
Least Effective	No Control	1.0 (0% risk score reduction)

Control Effectivness

Part 2 Doing - E-tools for JHA Follow-up

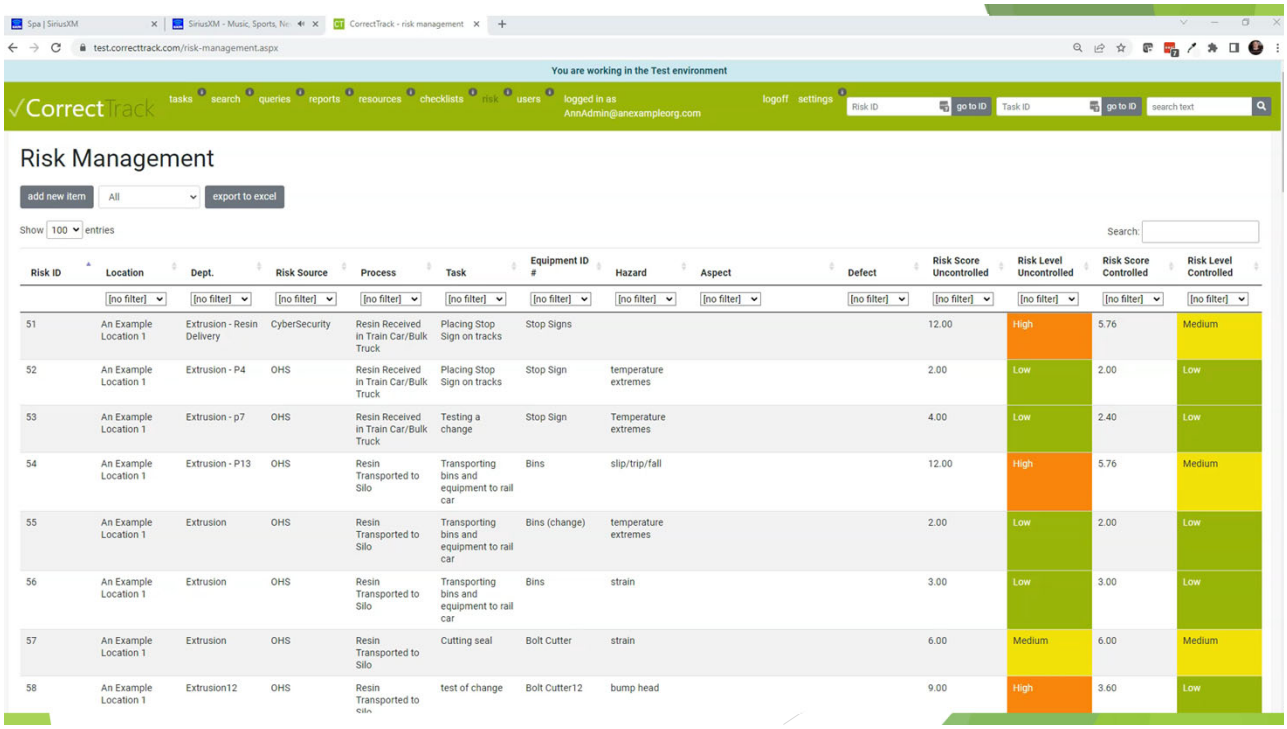


Risk ID	Location	Dept.	Risk Source	Process	Task	Equipment ID #	Hazard	Aspect	Defect	Risk Score Uncontrolled	Risk Level Uncontrolled	Risk Score Controlled	Risk Level Controlled
	[no filter]	[no filter]	OHS	[no filter]	[no filter]	[no filter]	[no filter]	[no filter]	[no filter]	[no filter]	[no filter]	[no filter]	[no filter]
52	An Example Location 1	Extrusion - P4	OHS	Resin Received in Train Car/Bulk Truck	Placing Stop Sign on tracks	Stop Sign	temperature extremes			2.00	Low	2.00	Low
53	An Example Location 1	Extrusion - p7	OHS	Resin Received in Train Car/Bulk Truck	Testing a change	Stop Sign	Temperature extremes			4.00	Low	2.40	Low
54	An Example Location 1	Extrusion - P13	OHS	Resin Transported to Silo	Transporting bins and equipment to rail car	Bins	slip/trip/fall			12.00	High	5.76	Medium
55	An Example Location 1	Extrusion	OHS	Resin Transported to Silo	Transporting bins and equipment to rail car	Bins (change)	temperature extremes			2.00	Low	2.00	Low
56	An Example Location 1	Extrusion	OHS	Resin Transported to Silo	Transporting bins and equipment to rail car	Bins	strain			3.00	Low	3.00	Low
57	An Example Location 1	Extrusion	OHS	Resin Transported to Silo	Cutting seal	Bolt Cutter	strain			6.00	Medium	6.00	Medium
58	An Example Location 1	Extrusion12	OHS	Resin Transported to Silo	test of change	Bolt Cutter12	bump head			9.00	High	3.60	Low
59	An Example Location 1	Extrusion	OHS	Resin Transported to Silo	Cutting seal	Bolt Cutter	laceration			4.00	Low	4.00	Low

Prioritize Risk Reduction Effort

Where do we start?

What do we do?



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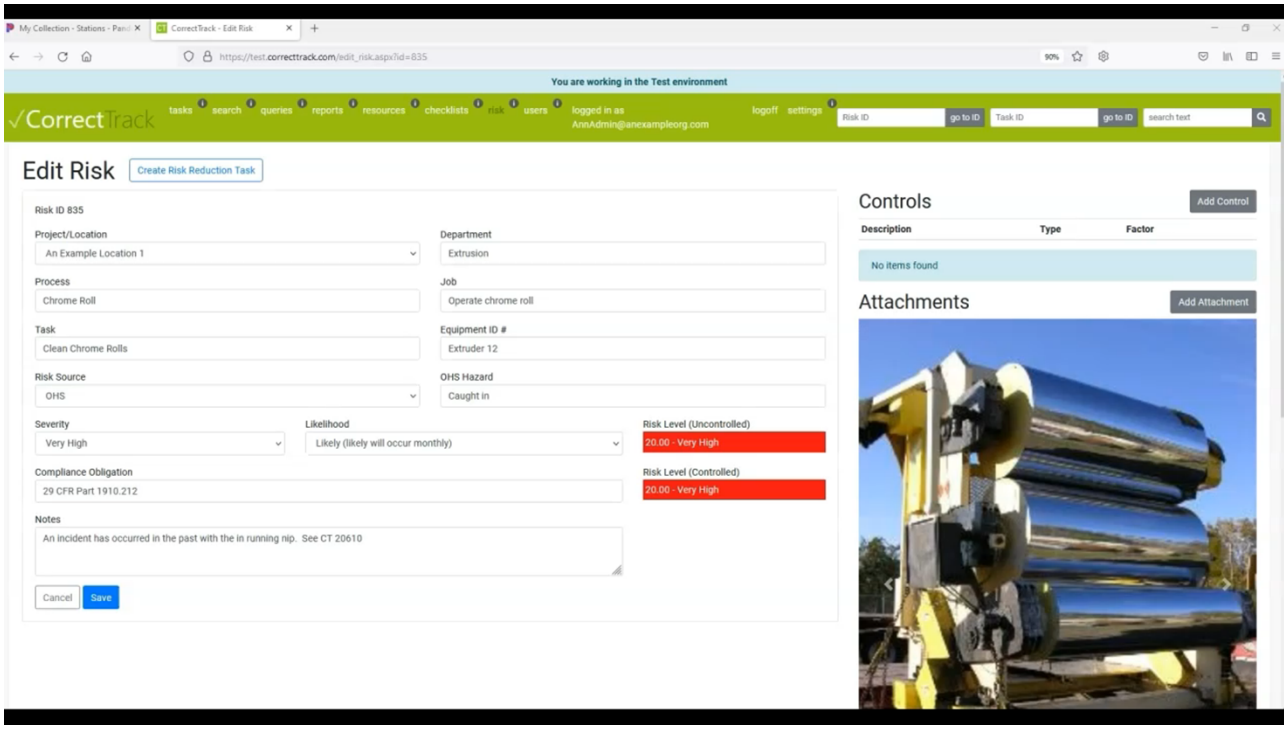
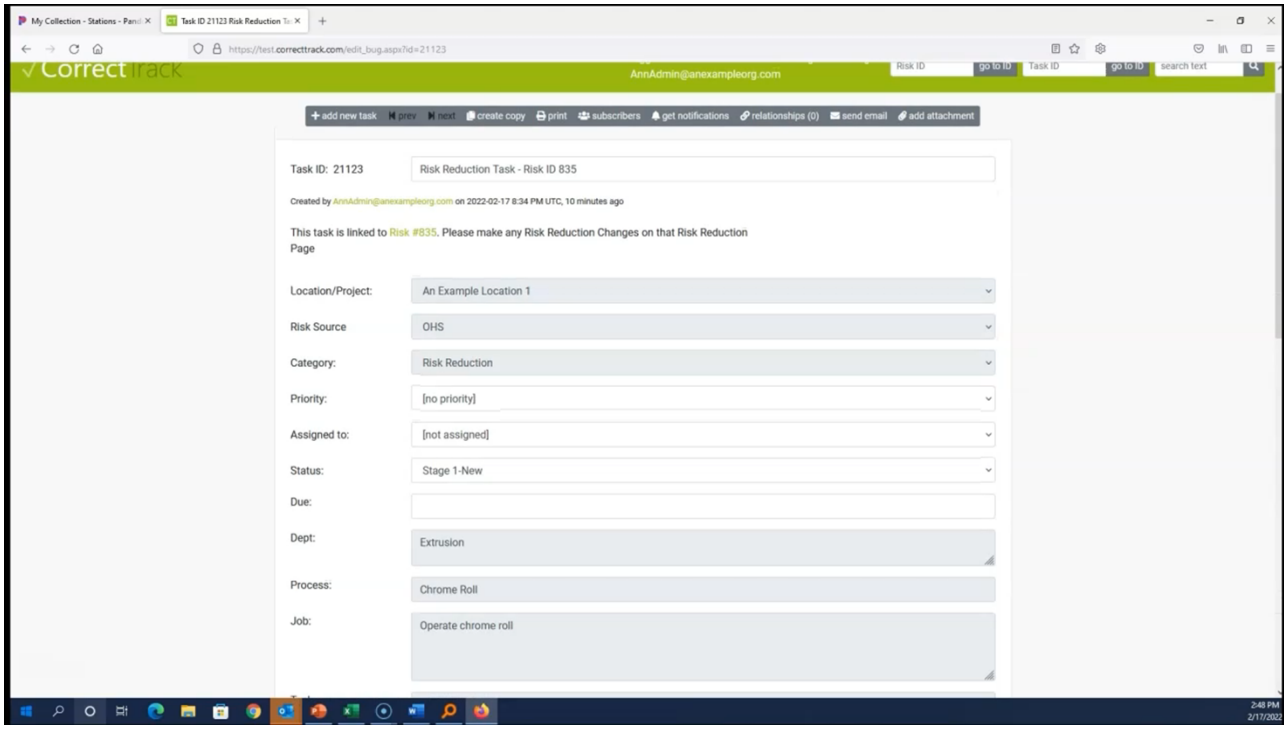
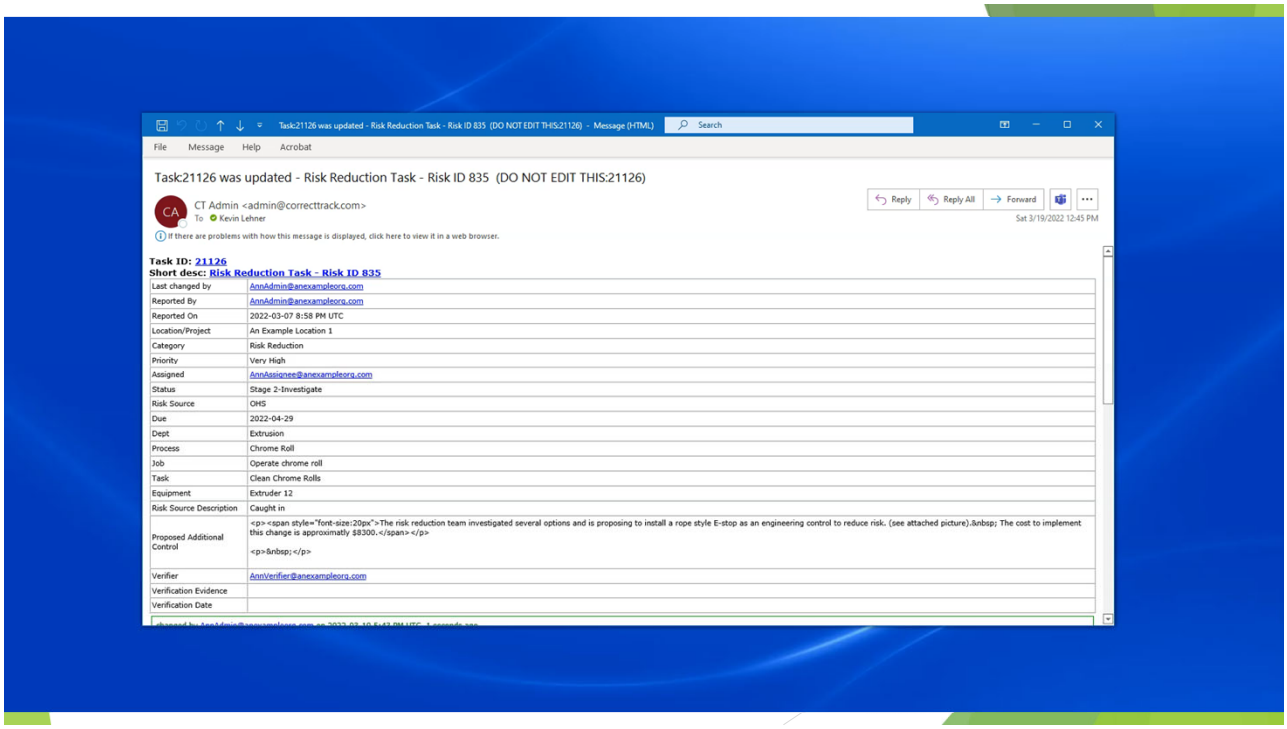
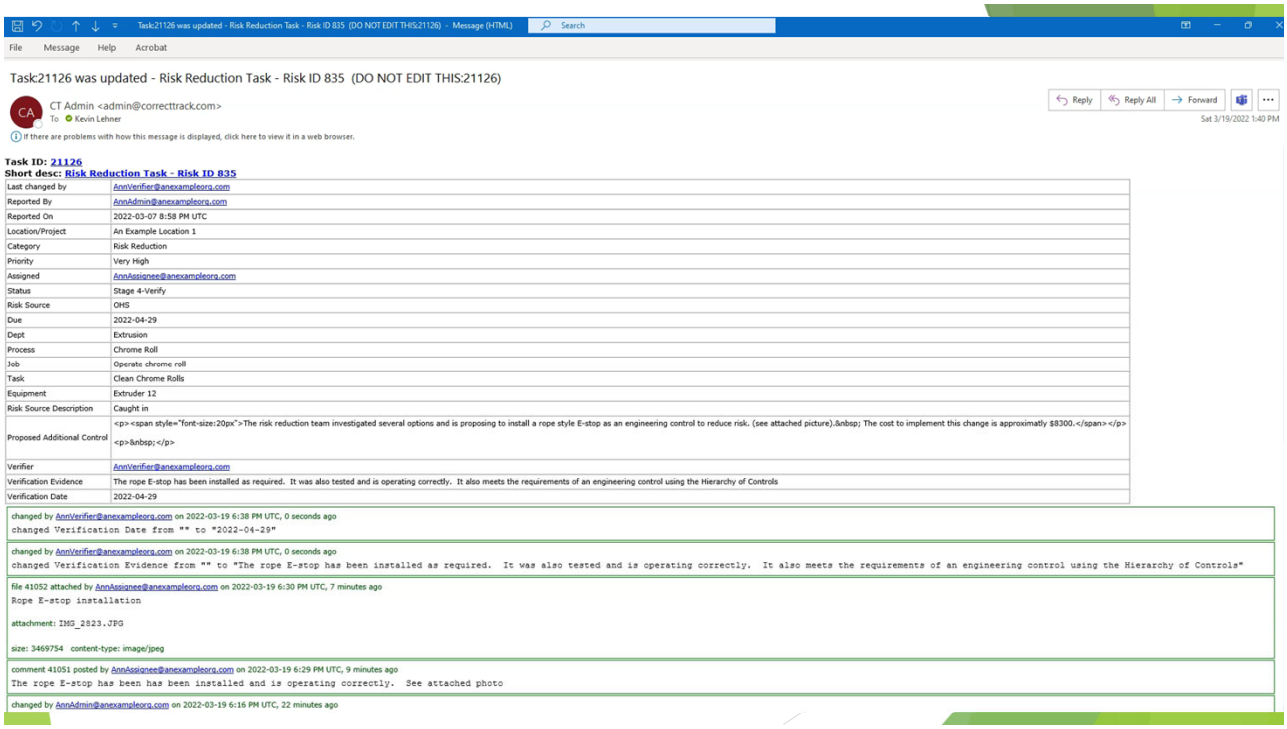
57	An Example Location 1	Extrusion	OHS	Resin Transported to Silo	Cutting seal	Bolt Cutter	strain			6.00	Medium	6.00	Medium
58	An Example Location 1	Extrusion12	OHS	Resin Transported to	test of change	Bolt Cutter12	bump head			9.00	High	3.60	Low


You are working in the Test environment
CorrectTrack
tasks search queries reports resources checklists risk users logged in as AnnAdmin@anexampleorg.com logoff settings
Edit Risk
Create Risk Reduction Task
Risk ID 835
Project/Location
An Example Location 1
Department
Extrusion
Process
Chrome Roll
Job
Operate chrome roll
Task
Clean Chrome Rolls
Equipment ID #
Extruder 12
Risk Source
OHS
OHS Hazard
Caught in
Severity
Very High
Likelihood
Likely (likely will occur monthly)
Risk Level (Uncontrolled)
20.00 - Very High
Compliance Obligation
29 CFR Part 1910.212
Risk Level (Controlled)
20.00 - Very High
Notes
An incident has occurred in the past with the in running nip. See CT 20610
Cancel
Save
Controls
Add Control
Description
Type
Factor
No items found
Attachments
Add Attachment


CorrectTrack
AnnAdmin@anexampleorg.com
add new task
prev
next
create copy
print
subscribers
get notifications
relationships (0)
send email
add attachment
Task ID: 21123
Risk Reduction Task - Risk ID 835
Created by AnnAdmin@anexampleorg.com on 2022-02-17 8:34 PM UTC, 10 minutes ago
This task is linked to Risk #835. Please make any Risk Reduction Changes on that Risk Reduction Page
Location/Project:
An Example Location 1
Risk Source
OHS
Category:
Risk Reduction
Priority:
[no priority]
Assigned to:
[not assigned]
Status:
Stage 1-New
Due:
Dept:
Extrusion
Process:
Chrome Roll
Job:
Operate chrome roll

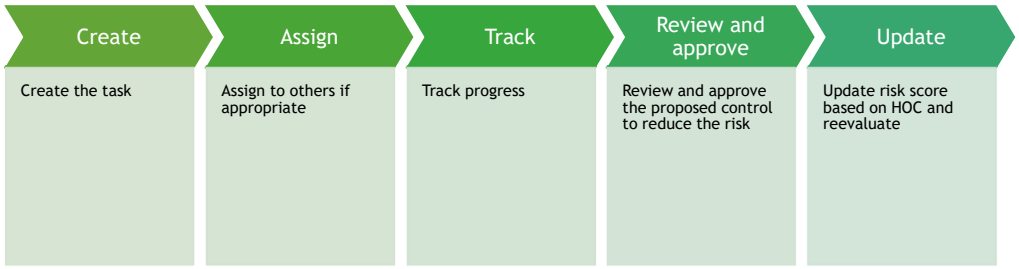

Task:21126 was updated - Risk Reduction Task - Risk ID 835 (DO NOT EDIT THIS:21126) - Message (HTML)
Search
File Message Help Acrobat
Task:21126 was updated - Risk Reduction Task - Risk ID 835 (DO NOT EDIT THIS:21126)
CA
CT Admin <admin@correcttrack.com>
To Kevin Lehner
Reply Reply All Forward
Sat 3/19/2022 12:45 PM
If there are problems with how this message is displayed, click here to view it in a web browser.
Task ID: 21126
Short desc: Risk Reduction Task - Risk ID 835
Last changed by AnnAdmin@anexampleorg.com
Reported By AnnAdmin@anexampleorg.com
Reported On 2022-03-07 8:58 PM UTC
Location/Project An Example Location 1
Category Risk Reduction
Priority Very High
Assigned AnnAssignee@anexampleorg.com
Status Stage 2-Investigate
Risk Source OHS
Due 2022-04-29
Dept Extrusion
Process Chrome Roll
Job Operate chrome roll
Task Clean Chrome Rolls
Equipment Extruder 12
Risk Source Description Caught in
Proposed Additional Control The risk reduction team investigated several options and is proposing to install a rope style E-stop as an engineering control to reduce risk. (see attached picture). The cost to implement this change is approximatly $8300.

Verifier AnnVerifier@anexampleorg.com
Verification Evidence
Verification Date

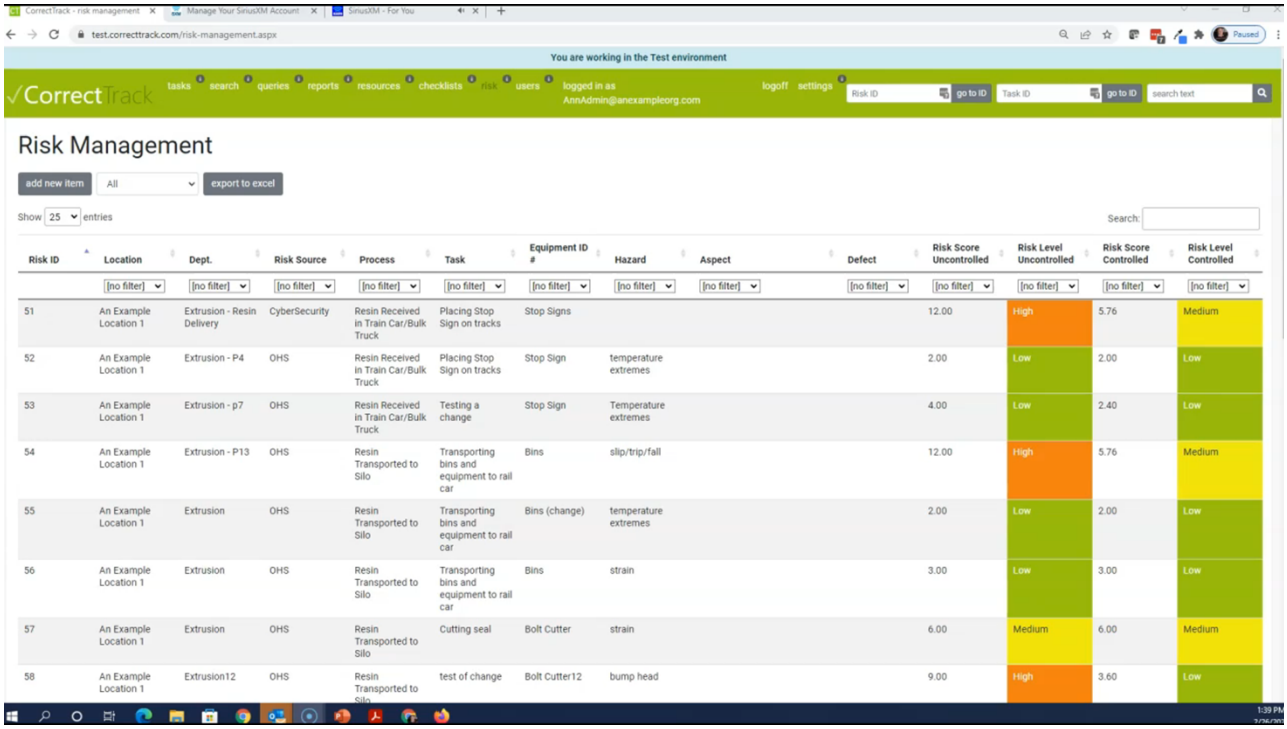

Task:21126 was updated - Risk Reduction Task - Risk ID 835 (DO NOT EDIT THIS:21126) - Message (HTML)
Search
File Message Help Acrobat
Task:21126 was updated - Risk Reduction Task - Risk ID 835 (DO NOT EDIT THIS:21126)
CA
CT Admin <admin@correcttrack.com>
To Kevin Lehner
Reply Reply All Forward
Sat 3/19/2022 1:40 PM
If there are problems with how this message is displayed, click here to view it in a web browser.
Task ID: 21126
Short desc: Risk Reduction Task - Risk ID 835
Last changed by AnnVerifier@anexampleorg.com
Reported By AnnAdmin@anexampleorg.com
Reported On 2022-03-07 8:58 PM UTC
Location/Project An Example Location 1
Category Risk Reduction
Priority Very High
Assigned AnnAssignee@anexampleorg.com
Status Stage 4-Verify
Risk Source OHS
Due 2022-04-29
Dept Extrusion
Process Chrome Roll
Job Operate chrome roll
Task Clean Chrome Rolls
Equipment Extruder 12
Risk Source Description Caught in
Proposed Additional Control The risk reduction team investigated several options and is proposing to install a rope style E-stop as an engineering control to reduce risk. (see attached picture). The cost to implement this change is approximatly $8300.

Verifier AnnVerifier@anexampleorg.com
Verification Evidence The rope E-stop has been installed as required. It was also tested and is operating correctly. It also meets the requirements of an engineering control using the Hierarchy of Controls
Verification Date 2022-04-29
changed by AnnVerifier@anexampleorg.com on 2022-03-19 6:38 PM UTC, 0 seconds ago
changed Verification Date from "" to "2022-04-29"
changed by AnnVerifier@anexampleorg.com on 2022-03-19 6:38 PM UTC, 0 seconds ago
changed Verification Evidence from "" to "The rope E-stop has been installed as required. It was also tested and is operating correctly. It also meets the requirements of an engineering control using the Hierarchy of Controls"
file 41052 attached by AnnAssignee@anexampleorg.com on 2022-03-19 6:30 PM UTC, 7 minutes ago
Rope E-stop installation
attachment: IMG_2823.JPG
size: 3469754 content-type: image/jpeg
comment 41051 posted by AnnAssignee@anexampleorg.com on 2022-03-19 6:29 PM UTC, 9 minutes ago
The rope E-stop has been has been installed and is operating correctly. See attached photo
changed by AnnAdmin@anexampleorg.com on 2022-03-19 6:16 PM UTC, 22 minutes ago

Create Risk Reduction Task Flow



Part 3 Checking E-tools for Checking Risk Control Effectiveness



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52	An Example Location 1	Extrusion - P4	OHS	Resin Received in Train Car/Bulk Truck	Placing Stop Sign on tracks	Stop Sign	temperature extremes			2.00	Low	2.00	Low
53	An Example Location 1	Extrusion - p7	OHS	Resin Received in Train Car/Bulk Truck	Testing a change	Stop Sign	Temperature extremes			4.00	Low	2.40	Low
54	An Example Location 1	Extrusion - P13	OHS	Resin Transported to Silo	Transporting bins and equipment to rail car	Bins	slip/trip/fall			12.00	High	5.76	Medium
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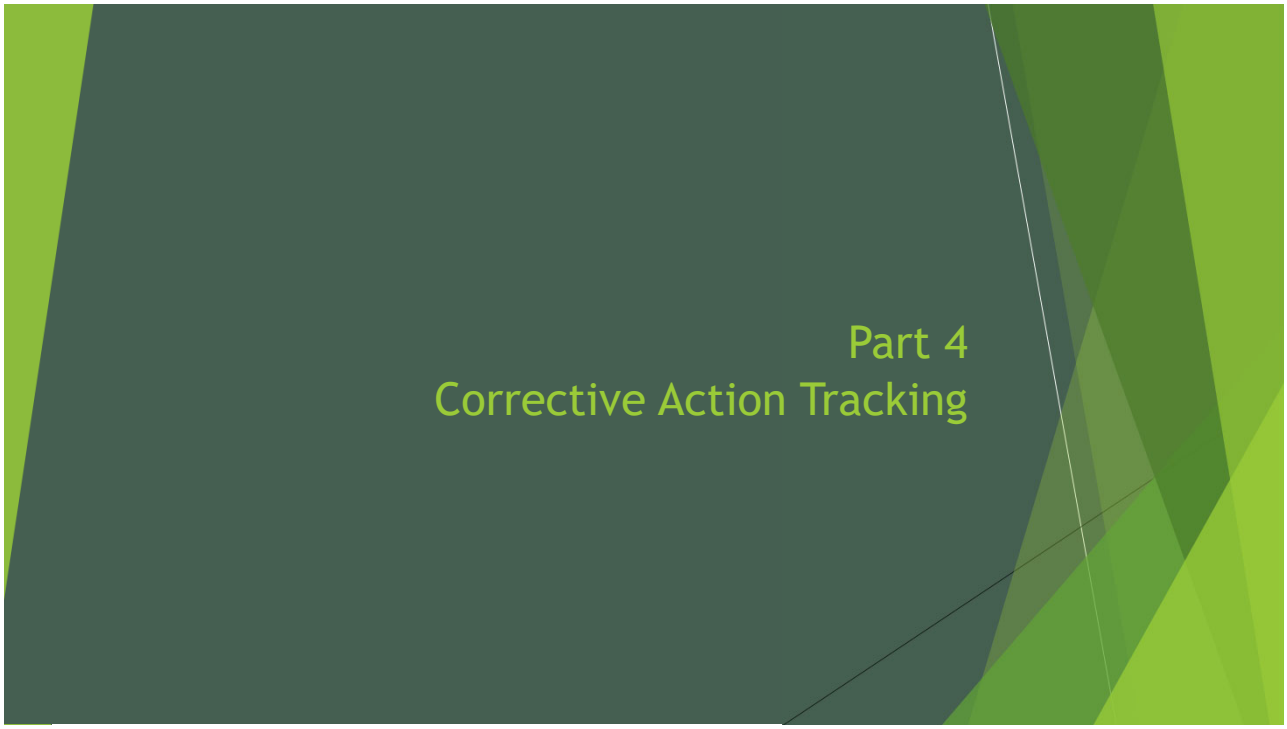
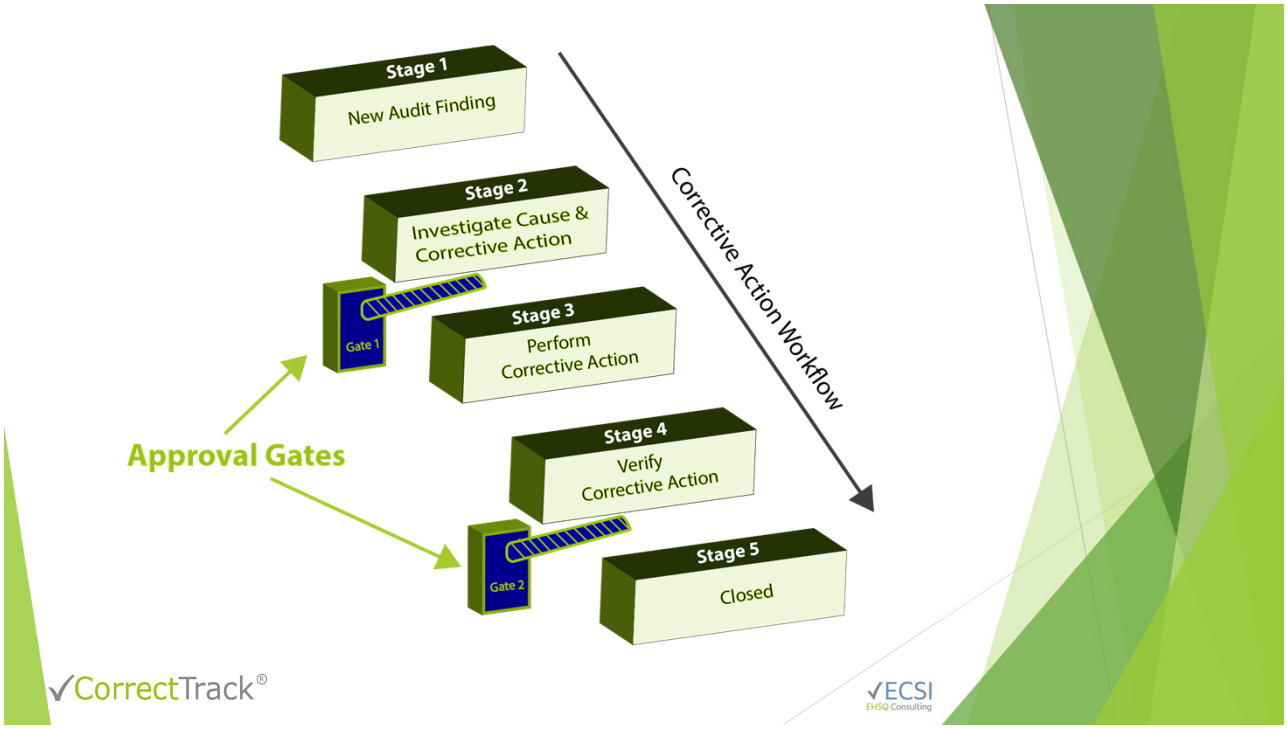
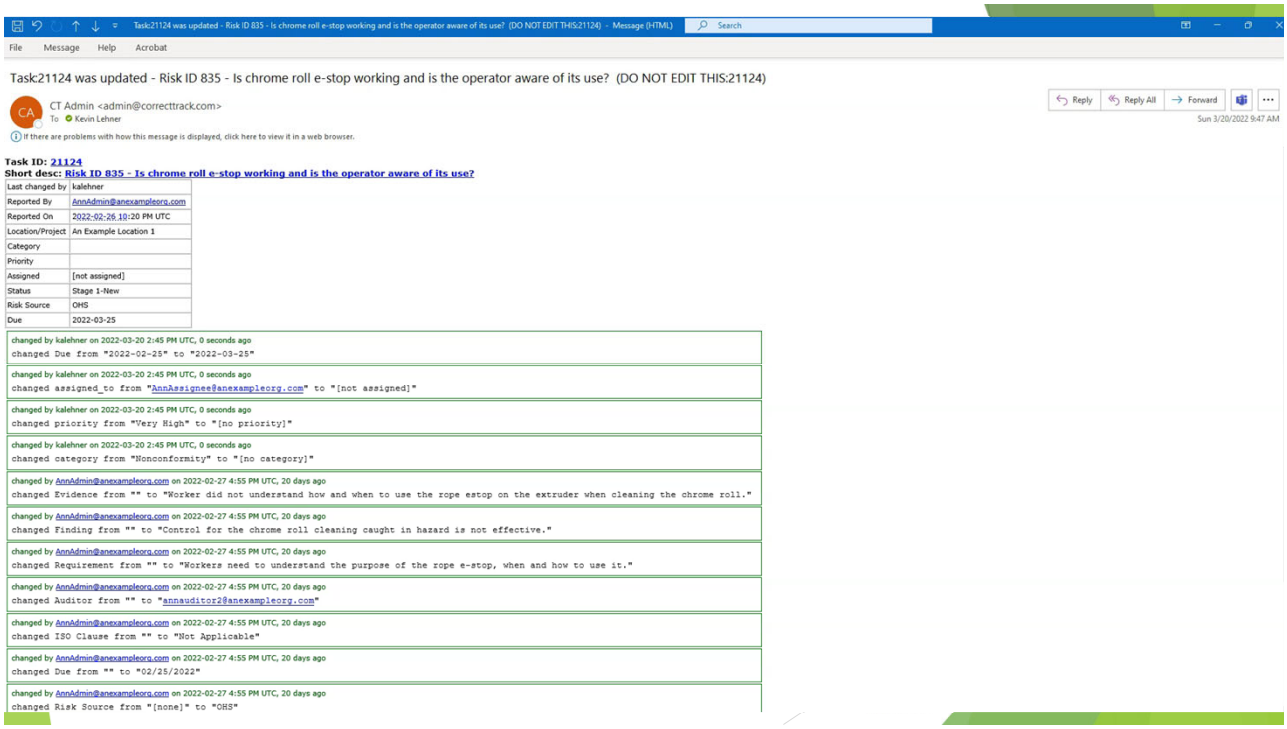
57	An Example Location 1	Extrusion	OHS	Resin Transported to Silo	Cutting seal	Bolt Cutter	strain			6.00	Medium	6.00	Medium
58	An Example Location 1	Extrusion12	OHS	Resin Transported to Silo	test of change	Bolt Cutter12	bump head			9.00	High	3.60	Low







Task:21124 was updated - Risk ID 835 - Is chrome roll e-stop working and is the operator aware of its use? (DO NOT EDIT THIS:21124)

CT Admin <admin@correcttrack.com>
To Kevin Lehner

If there are problems with how this message is displayed, click here to view it in a web browser.

Task ID: 21124
Short desc: Risk ID 835 - Is chrome roll e-stop working and is the operator aware of its use?

Last changed by	kalehner
Reported By	AnnAdmin@anexampleorg.com
Reported On	2022-02-26 10:20 PM UTC
Location/Project	An Example Location 1
Category	
Priority	
Assigned	[not assigned]
Status	Stage 1-New
Risk Source	OHS
Due	2022-03-25

changed by kalehner on 2022-03-20 2:45 PM UTC, 0 seconds ago
changed Due from "2022-02-25" to "2022-03-25"

changed by kalehner on 2022-03-20 2:45 PM UTC, 0 seconds ago
changed assigned_to from "AnnAssignee@anexampleorg.com" to "[not assigned]"

changed by kalehner on 2022-03-20 2:45 PM UTC, 0 seconds ago
changed priority from "Very High" to "[no priority]"

changed by kalehner on 2022-03-20 2:45 PM UTC, 0 seconds ago
changed category from "Nonconformity" to "[no category]"

changed by AnnAdmin@anexampleorg.com on 2022-02-27 4:55 PM UTC, 20 days ago
changed Evidence from "" to "Worker did not understand how and when to use the rope estop on the extruder when cleaning the chrome roll."

changed by AnnAdmin@anexampleorg.com on 2022-02-27 4:55 PM UTC, 20 days ago
changed Finding from "" to "Control for the chrome roll cleaning caught in hazard is not effective."

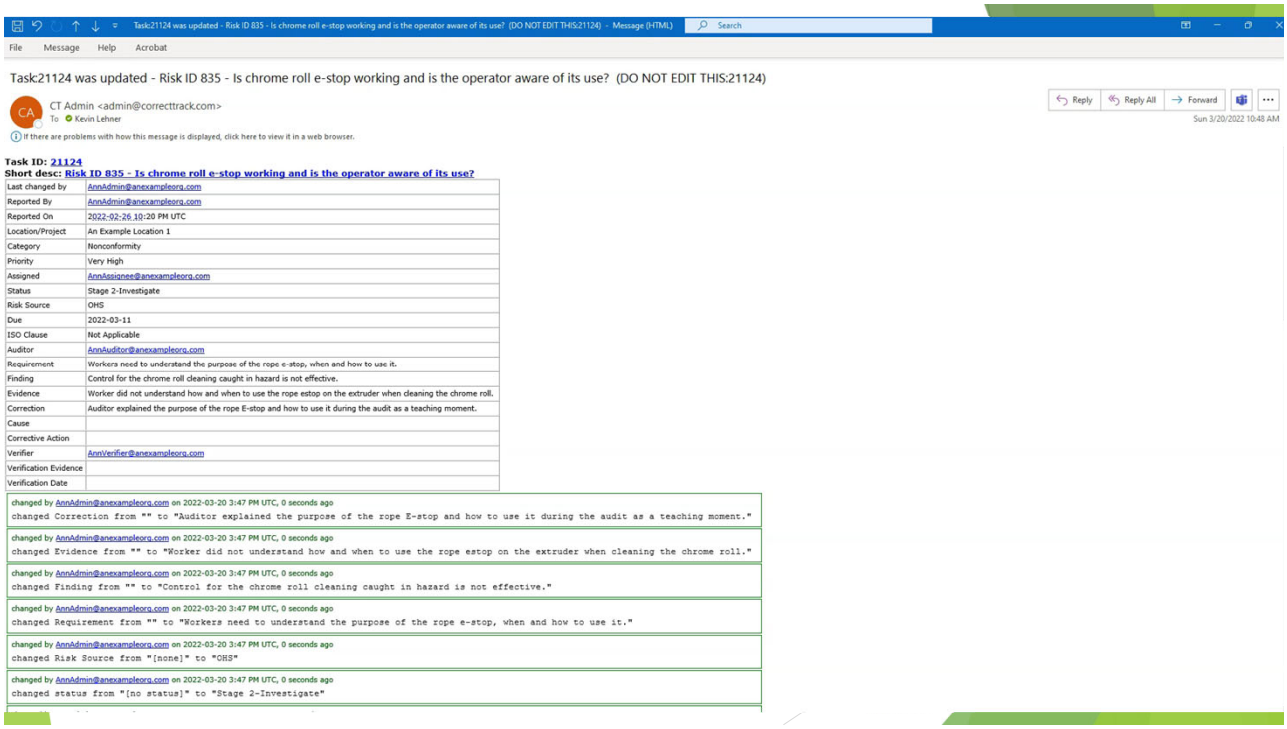
changed by AnnAdmin@anexampleorg.com on 2022-02-27 4:55 PM UTC, 20 days ago
changed Requirement from "" to "Workers need to understand the purpose of the rope e-stop, when and how to use it."

changed by AnnAdmin@anexampleorg.com on 2022-02-27 4:55 PM UTC, 20 days ago
changed Auditor from "" to "annauditor2@anexampleorg.com"

changed by AnnAdmin@anexampleorg.com on 2022-02-27 4:55 PM UTC, 20 days ago
changed ISO Clause from "" to "Not Applicable"

changed by AnnAdmin@anexampleorg.com on 2022-02-27 4:55 PM UTC, 20 days ago
changed Due from "" to "02/25/2022"

changed by AnnAdmin@anexampleorg.com on 2022-02-27 4:55 PM UTC, 20 days ago
changed Risk Source from "[none]" to "OHS"



Task:21124 was updated - Risk ID 835 - Is chrome roll e-stop working and is the operator aware of its use? (DO NOT EDIT THIS:21124) - Message (HTML)

File Message Help Acrobat

Task:21124 was updated - Risk ID 835 - Is chrome roll e-stop working and is the operator aware of its use? (DO NOT EDIT THIS:21124)

CT Admin <admin@correcttrack.com>
To Kevin Lehner

Reply Reply All Forward
Sun 3/20/2022 10:48 AM

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Task ID: 21124
Short desc: Risk ID 835 - Is chrome roll e-stop working and is the operator aware of its use?

Last changed by	AnnAdmin@anexampleorg.com
Reported By	AnnAdmin@anexampleorg.com
Reported On	2022-02-26 10:20 PM UTC
Location/Project	An Example Location 1
Category	Nonconformity
Priority	Very High
Assigned	AnnAssignee@anexampleorg.com
Status	Stage 2-Investigate
Risk Source	OHS
Due	2022-03-11
ISO Clause	Not Applicable
Auditor	AnnAuditor@anexampleorg.com
Requirement	Workers need to understand the purpose of the rope e-stop, when and how to use it.
Finding	Control for the chrome roll cleaning caught in hazard is not effective.
Evidence	Worker did not understand how and when to use the rope estop on the extruder when cleaning the chrome roll.
Correction	Auditor explained the purpose of the rope E-stop and how to use it during the audit as a teaching moment.
Cause	
Corrective Action	
Verifier	AnnVerifier@anexampleorg.com
Verification Evidence	
Verification Date	

changed by AnnAdmin@anexampleorg.com on 2022-03-20 3:47 PM UTC, 0 seconds ago
changed Correction from "" to "Auditor explained the purpose of the rope E-stop and how to use it during the audit as a teaching moment."

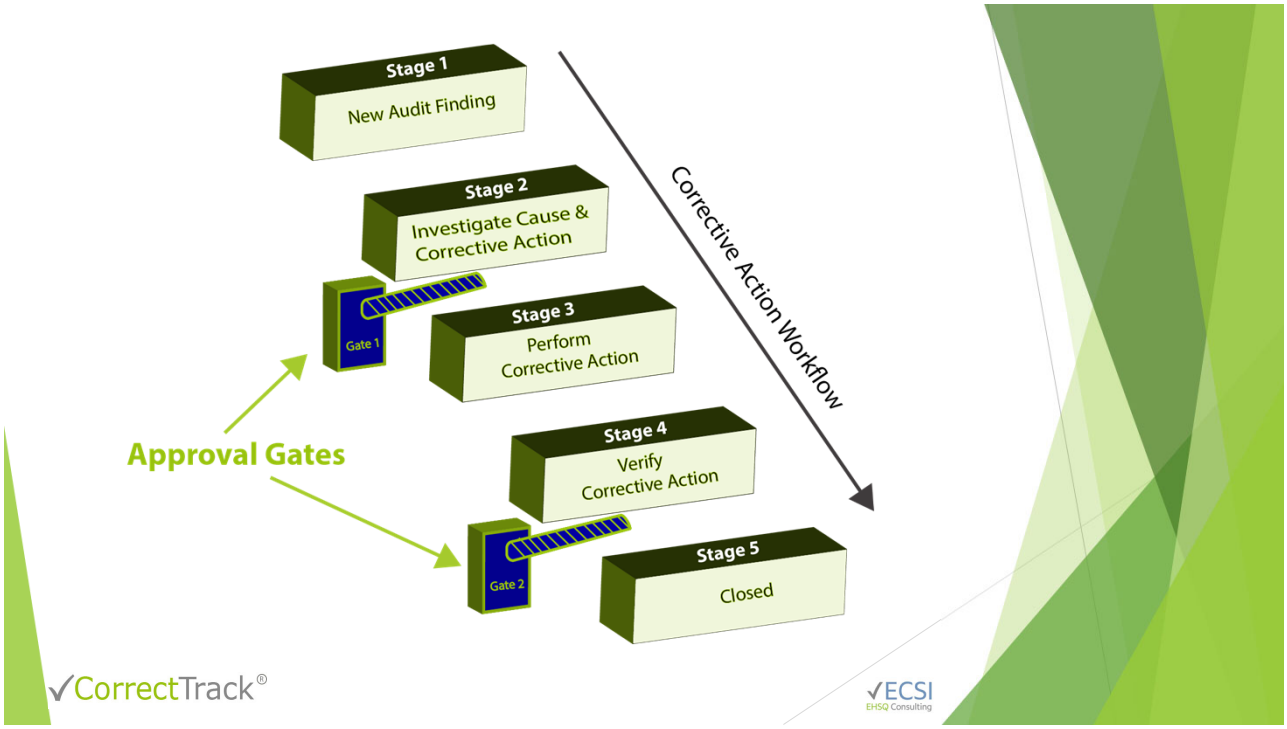
changed by AnnAdmin@anexampleorg.com on 2022-03-20 3:47 PM UTC, 0 seconds ago
changed Evidence from "" to "Worker did not understand how and when to use the rope estop on the extruder when cleaning the chrome roll."

changed by AnnAdmin@anexampleorg.com on 2022-03-20 3:47 PM UTC, 0 seconds ago
changed Finding from "" to "Control for the chrome roll cleaning caught in hazard is not effective."

changed by AnnAdmin@anexampleorg.com on 2022-03-20 3:47 PM UTC, 0 seconds ago
changed Requirement from "" to "Workers need to understand the purpose of the rope e-stop, when and how to use it."

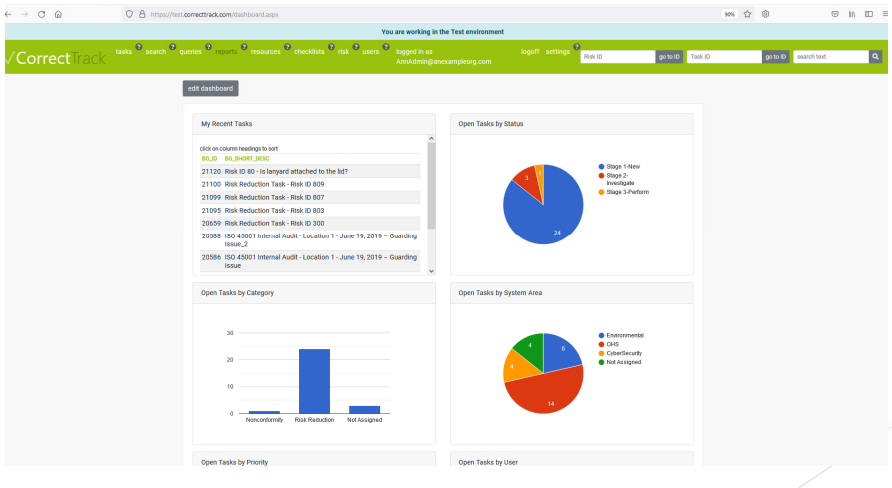
changed by AnnAdmin@anexampleorg.com on 2022-03-20 3:47 PM UTC, 0 seconds ago
changed Risk Source from "[none]" to "OHS"

changed by AnnAdmin@anexampleorg.com on 2022-03-20 3:47 PM UTC, 0 seconds ago
changed status from "[no status]" to "Stage 2-Investigate"



Part 5
Communicating to Leadership

Communicate to Leadership



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Other Benefits of Cloud-Based Apps

- Improved communication
- Workers & supervisors can quickly review JHA information
- Train employees
- Maintain records of changes
- A platform for elements of a JHA and an OHS management system

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Summary and Questions

In Summary

- How to use e-tools to create OHS JHA and risk assessment
- Prioritize additional risk control
- Perform internal audits for risk control
- Follow-up on audit nonconformance
- Communicate results to leadership

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Conclusion

- You should now be able to:
  - Use cloud-based database application to record the results of you JHA/JSA.
  - Assess OHS and other risk sources (hazards, env. aspects etc) and determine the "raw" uncontrolled risk for these risk source type.
  - Apply the hierarchy of control protection factors to and recalculate residual risk score.
  - Evaluate residual risk scores and determine if they are acceptable.
  - Create risk reduction tasks to investigate additional controls.
  - Use the cloud-based database application to plan and execute internal audits.
  - Use the application to follow-up on audit nonconformance.
  - Communicate the status of the risk management program to leadership

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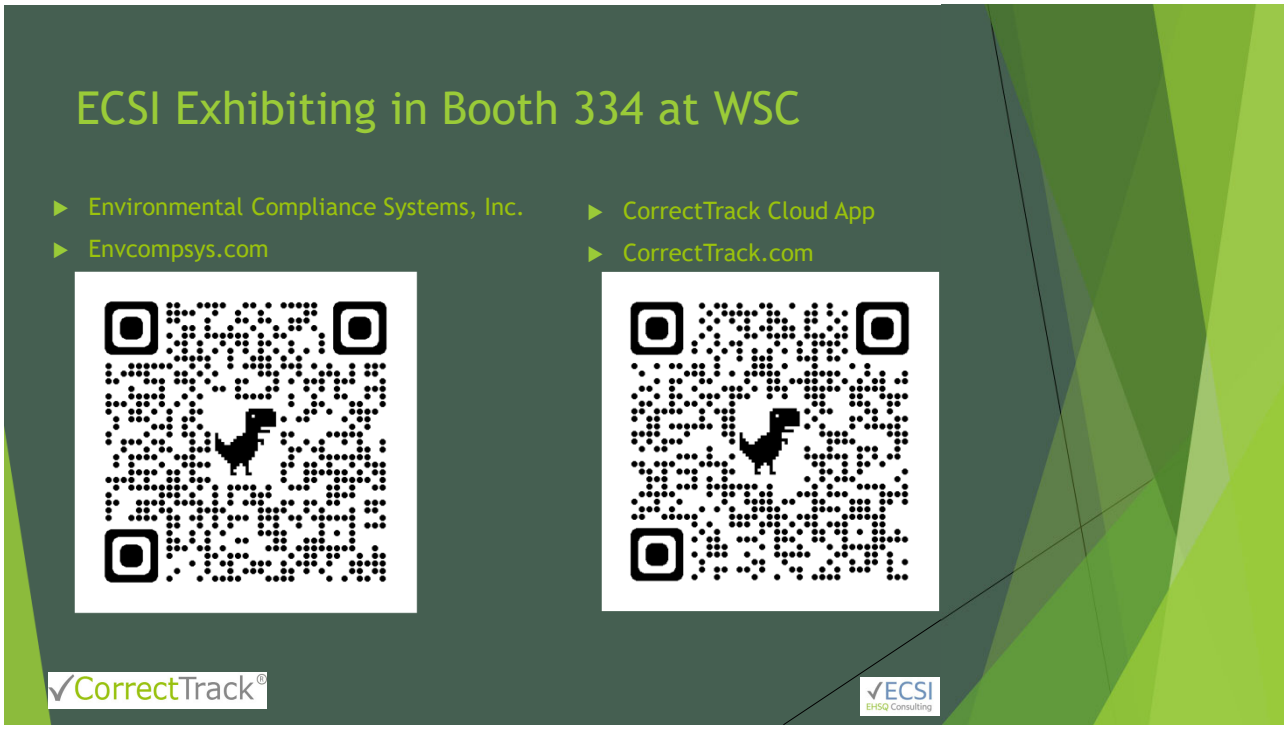
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