



# WORKING WITH YOUR MAP

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November 2017

# LEARNING OUTCOME & RESOURCES

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## Learning Outcome

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- Ability to improve your facility's chemical system by understanding the link between on-site assessment and a Management Action Plan.
- Ability to use the Management Action Plan as a tool to drive change towards environmentally-friendly production.

## Resources

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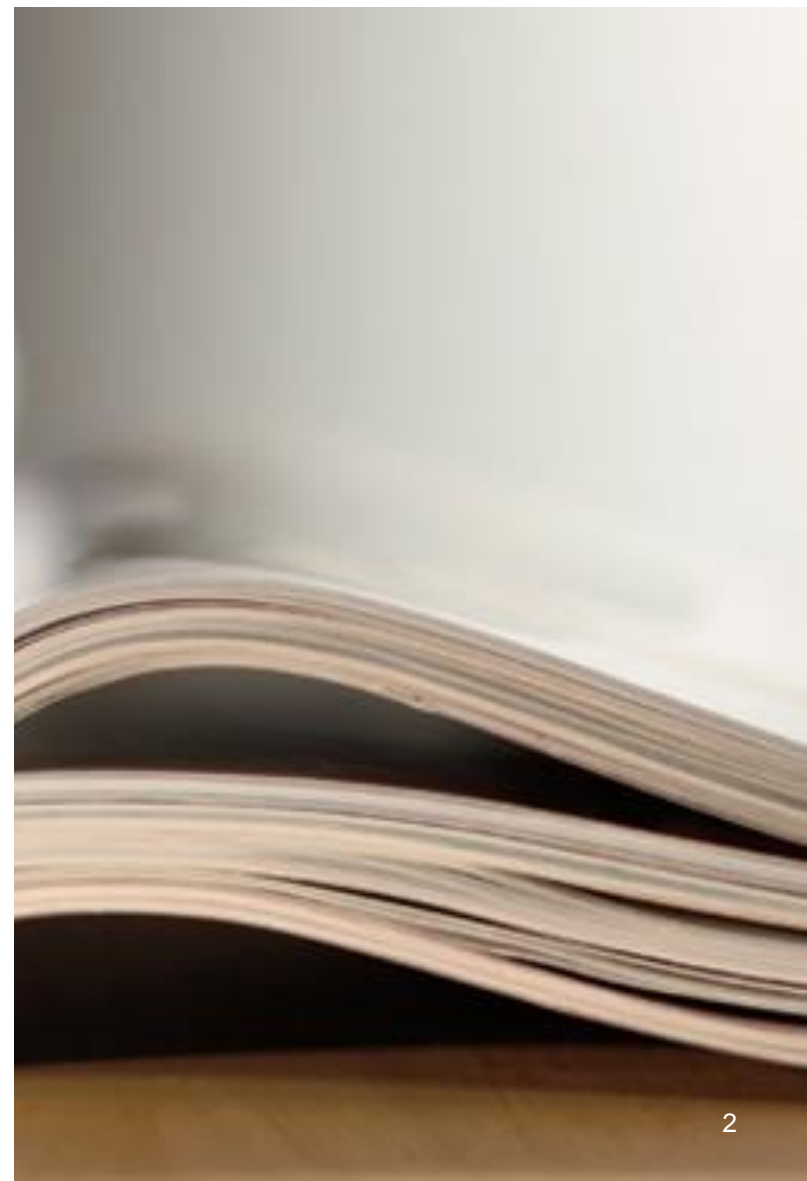
- REMC Company Handbook.
- ZDHC Chemical Management Systems Guidance Manual.

## Workbook

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Refer to complimentary excercises in your workbook.





## **ZDHC CMS 4.4.2 - Corrective Action**

- Procedure for Change Management and Corrective Action.  
Establish, document and implement a process for dealing with actual and potential non-conformities or non-compliance. This process should include taking corrective and preventive actions, documenting the actions taken and verifying the effectiveness of the actions taken.



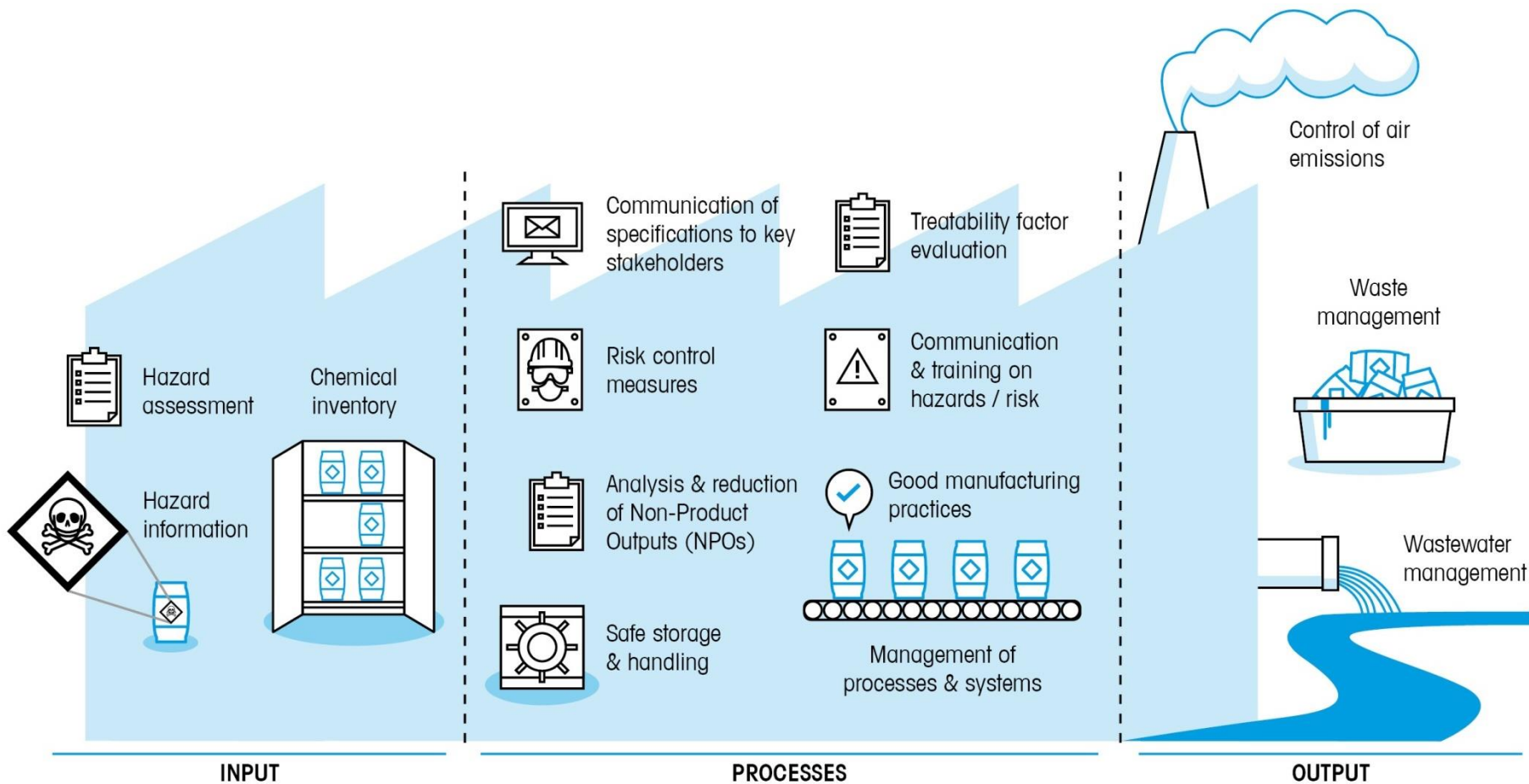


**What problems might occur if you are not improving your environmental management system?**



Brainstorm as a group and make notes in your workbook, exercise (2-1)

# ASSESSING THE CHEMICAL MANAGEMENT SYSTEM IN YOUR FACILITY



## 5 Assessment Areas – 40 Questions

Management System – Water Use – Chemical Management –  
Wastewater Treatment & Waste Management – Sustainability & Process Optimisation



# ASSESSMENT QUESTIONNAIRE

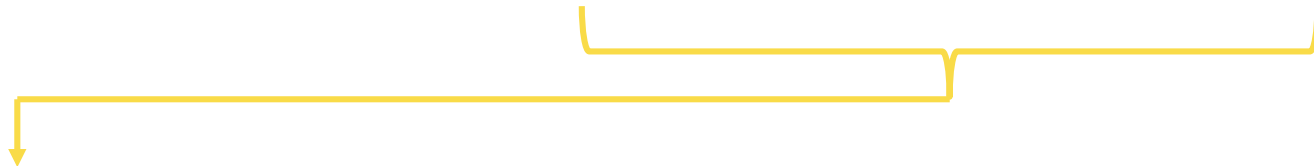
## Assessment Questions

Area	Code	Assessment Questions	Baseline Visit	Improvement Area (When not fully implemented please explain)	Validation Visit	Status Validation Visit (When not fully implemented please explain)
			<i>Please select the alternative that represents the current status of your InPU</i>		<i>Please select the alternative that represents the current status of your InPU</i>	
<b>Management Systems</b>	MS 1.0	Does the facility have an effective environment management system?	Not applicable		Not applicable	
	MS 2.0	Does the facility conducts periodical training, that includes air / water quality, chemical management processes with hazardous material / waste management, considering usage of PPEs and spillages?	Not applicable		Not applicable	
	MS 3.0	Does the facility have a management representative, who is responsible for coordinating the site's efforts to improve environmental performance, reporting to senior	Not applicable		Not applicable	
	MS 4.0	Has the facility established environmental targets and reduction plans for freshwater use, waste minimisation,	Not applicable		Not applicable	
<b>Water Use</b>	WU 1.0	Has the facility identified its primary water sources (e.g. municipal, surface water, groundwater (e.g. pond / well), recycled water, etc.)? And is there a system for measuring the water use?	Yes - Fully Implemented		No - Not Implemented	
	WU 2.0	Does the facility have the capability to measure or evaluate water usage for various processes?	Yes - Fully Implemented		No - Not Implemented	
	WU 3.0	Is the water recycling plan fully implemented and practiced?	Yes - Fully Implemented		Not applicable	
	CM 1.0	Does your company have a proper chemical inventory management system?	Not applicable		Yes - Fully Implemented	
	CM 2.0	Does your company have a documented and implemented procurement policy?	Not applicable		Yes - Fully Implemented	
	CM 3.0	Does the facility have established procedures or alternative systems to ensure that only quality control approved chemicals are used?	Not applicable		Yes - Fully Implemented	
	CM 4.0	Does the facility has updated Safety Data Sheet in GHS format or other format with adequate and accurate information's necessary in section 2 , 3, 9, 11 and 12?	Yes - Fully Implemented		Yes - Fully Implemented	
	CM 5.0	Are retention samples of chemicals (risky) & non-compliance materials retained for one year or for the shelf life period whichever is earlier?	Yes - Fully Implemented		Yes - Fully Implemented	
	CM 6.0	Is there a dyes and chemicals traceability template, in which all the information regarding name of the suppliers, manufacturers, lot number and quantity of the chemical products are mentioned?	Yes - Fully Implemented		Yes - Fully Implemented	
	CM 7.0	Are the chemicals being stored (with individual accessories, secondary containment, ventilation, isolation, segregation, separation, incompatibility) transported and handled at the facility appropriately?	Yes - Fully Implemented		Yes - Fully Implemented	
	CM 8.0	Is there a process of checking the labels and eco labels for all incoming chemicals at the store?	Yes - Fully Implemented		Yes - Fully Implemented	
	CM 9.0	Are incoming chemicals segregated from working stock prior to acceptance for use and stored in well ventilated space?	Yes - Fully Implemented		Yes - Fully Implemented	

# FROM ASSESSMENT QUESTIONNAIRE TO MANAGEMENT ACTION PLAN (MAP)



Code	Assessment Questions	Baseline Visit	Improvement Area (When not fully implemented please explain)
<i>Please select the alternative that represents the current status of your WPU</i>			
CM 1.0	Does your company have a proper chemical inventory management system?	Partial - Implementation Just Started	Facility files information on chemicals procured in a physical folder, however has no chemical inventory system established.




Example Mill		MANAGEMENT ACTION PLAN				
Code	Improvement Area	Management Action	Deadline	Responsible	Consultancy During Improvement Visit	Pictures
<b>Management Systems</b>						
CM 1.0	Facility files information on chemicals procured in a physical folder, however has no chemical inventory system established.					
CM 2.0	0					




# DEFINE THE BEST POSSIBLE MANAGEMENT ACTION

Example Mill		MANAGEMENT ACTION PLAN				
Code	Improvement Area	Management Action	Deadline	Responsible	Consultancy During Improvement Visit	Pictures
Management Systems						
CM 1.0	Facility files information on chemicals procured in a physical folder, however has no chemical inventory system established.					



MANAGEMENT ACTION PLAN				
Management Action	Deadline	Responsible	Consultancy During Improvement Visit	Pictures
An effective chemical inventory should be developed to ensure the full control of operations and activities where chemicals are involved within the facility.				



## Define Management Actions:

- Short-term actions to address hotspots.
- Medium-/long-term actions to address root causes identified.





# SET A DEADLINE FOR EACH MANAGEMENT ACTION

Example Mill		MANAGEMENT ACTION PLAN				
Code	Improvement Area	Management Action	Deadline	Responsible	Consultancy During Improvement Visit	Pictures
Management Systems						
CM 1.0	Facility files information on chemicals procured in a physical folder, however has no chemical inventory system established.					

MANAGEMENT ACTION PLAN				
Management Action	Deadline	Responsible	Consultancy During Improvement Visit	Pictures
An effective chemical inventory should be developed to ensure the full control of operations and activities where chemicals are involved within the facility.	30/06/2018			

## Set a realistic deadline:

- Close enough to not get moved back.
- Long enough to leave sufficient time for implementation.

# ASSIGN A RESPONSIBLE PERSON FOR EACH MANAGEMENT ACTION



Example Mill		MANAGEMENT ACTION PLAN				
Code	Improvement Area	Management Action	Deadline	Responsible	Consultancy During Improvement Visit	Pictures
Management Systems						
CM 1.0	Facility files information on chemicals procured in a physical folder, however has no chemical inventory system established.					

MANAGEMENT ACTION PLAN				
Management Action	Deadline	Responsible	Consultancy During Improvement Visit	Pictures
An effective chemical inventory should be developed to ensure the full control of operations and activities where chemicals are involved within the facility.	30/06/2018	1.EHS Manager 2.Process Manager 3.Store Manager 4.Procurement Manager 5.Lab Manager 6.ETP Manager		

## Assign a person, who:

- Has the necessary expertise or the opportunity to obtain such expertise.
- Has been provided with the necessary authority.
- Has required resources allocated.



# DEFINE THE MOST APPROPRIATE MANAGEMENT ACTION

Measure	Analyse		Improve	Control																					
<p>1) Describe the Problem</p> <table border="1"> <thead> <tr> <th></th> <th>IS</th> <th>IS NOT</th> </tr> </thead> <tbody> <tr> <td>What</td> <td></td> <td></td> </tr> <tr> <td>Where</td> <td></td> <td></td> </tr> <tr> <td>When</td> <td></td> <td></td> </tr> <tr> <td>Extent</td> <td></td> <td></td> </tr> </tbody> </table>		IS	IS NOT	What			Where			When			Extent			<p>4) Identify the Root-Cause</p>	<p>5) Analyse Existing Data</p>	<p>9) Determine Best Solution</p>	<p>12) Control Plan</p>						
	IS	IS NOT																							
What																									
Where																									
When																									
Extent																									
<p>2) Measure the Magnitude of a Problem</p>	<p>6) Construct List of Verified Facts</p> <table border="1"> <thead> <tr> <th>Facts</th> </tr> </thead> <tbody> <tr><td>Fact 1</td></tr> <tr><td>Fact 2</td></tr> <tr><td>Fact 3</td></tr> <tr><td>Fact 4</td></tr> </tbody> </table>	Facts	Fact 1	Fact 2	Fact 3	Fact 4	<p>7) Compare Causes to Facts</p> <table border="1"> <thead> <tr> <th></th> <th>Fact 1</th> <th>Fact 2</th> <th>Fact 3</th> </tr> </thead> <tbody> <tr> <td>Cause 1</td> <td>o</td> <td>x</td> <td>o</td> </tr> <tr> <td>Cause 2</td> <td>o</td> <td>o</td> <td>o</td> </tr> <tr> <td>Cause 3</td> <td>x</td> <td>x</td> <td>o</td> </tr> </tbody> </table>		Fact 1	Fact 2	Fact 3	Cause 1	o	x	o	Cause 2	o	o	o	Cause 3	x	x	o	<p>10) Pilot Solution</p>	
Facts																									
Fact 1																									
Fact 2																									
Fact 3																									
Fact 4																									
	Fact 1	Fact 2	Fact 3																						
Cause 1	o	x	o																						
Cause 2	o	o	o																						
Cause 3	x	x	o																						
<p>3) Determine when the problem started</p>	<p>8) Collect additional data until root cause is identified</p>	<p>11) Verify Solution Works</p>																							



## BENEFITS OF A MANAGEMENT ACTION PLAN

- Management buy-in, work towards more environmentally-friendly production.
- Prioritisation of actions.
- Create internal commitment to continuous improvement.
- Achieve measurable improvements.
- Enhanced risk management.
- Anticipate proposed regulatory requirements.
- Identify the most cost-effective actions that can be implemented to correct errors.
- Eliminate repeated deficient practices.





## Q&A

Take notes.  
Workbook, exercise  
(2-2)

Do you have any questions about the on-site assessments?

Do you have any questions regarding Management Action Plans?

# OPEN TO QUESTIONS

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# SUMMARY

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Every participant to feedback one key learning from this session.



Take notes in your workbook, exercise (2-3).



Based on the GIZ REMC Toolkit; adapted by **MADE-BY** and STS  
on behalf of Rewe Group, Tchibo GmbH and GIZ in cooperation with develoPPP.de and the Partnership for Sustainable Textiles