



# ZDHC Training Information

Leadership & Sustainability

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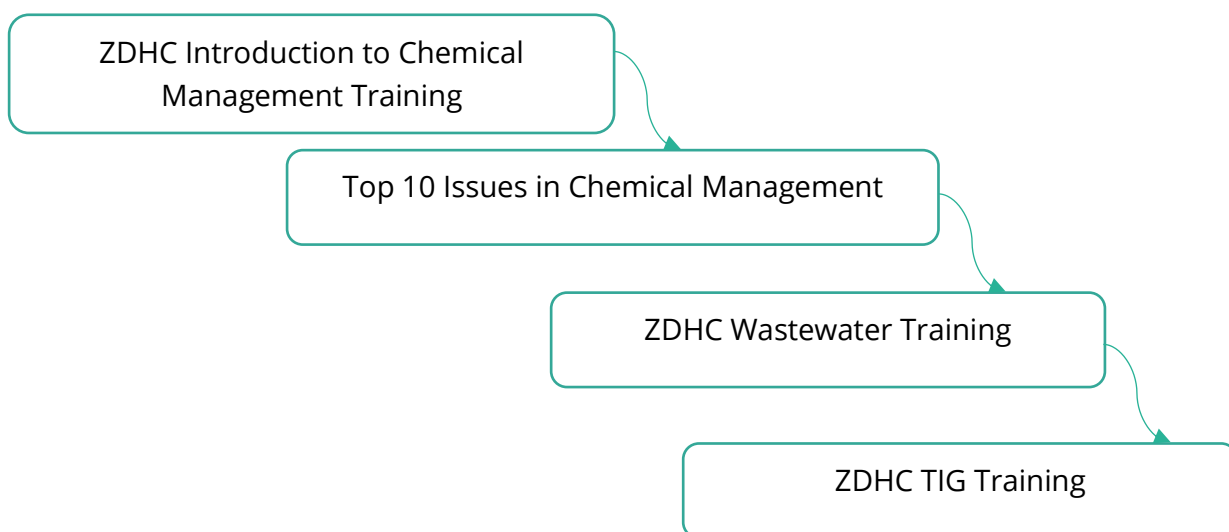
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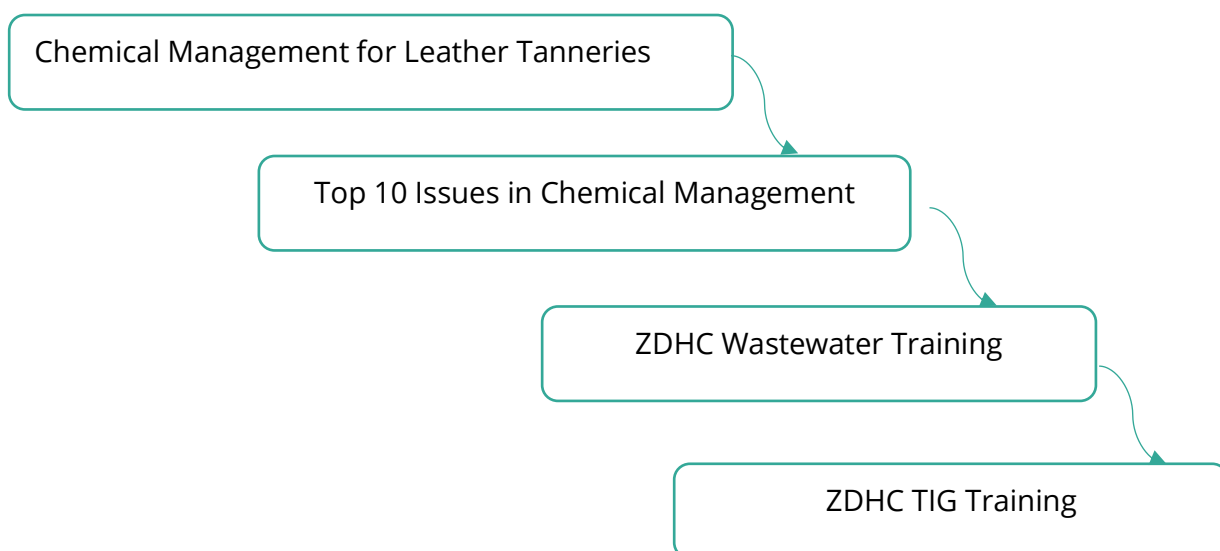
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# 1. Preferred sequence of learning of ZDHC modules

## For Dye House Chemical Management Team



## For Leather Tannery Chemical Management Team



**\*For candidates with experience in the chemical management within a dyehouse they can join one of the advanced trainings directly.**

## 2. ZDHC Introduction to Chemical Management System

### Course Content

The course '*ZDHC Introduction to Chemical Management*' is a program designed to improve your basic understanding of Chemical Management.

This course is aimed at Factory Managers and personnel responsible for dyeing, printing, chemical purchase, ETP, EHS, quality assurance and sustainability working at the wet processing facilities (such as dyehouse, printing, laundries and tanneries) or those working in the textile and footwear industry in a similar capacity.

By enrolling for the course, you are signing up for the following topics listed in the overview:

Day 1 – Basic Introduction	Day 2 – Deep Dive
<ol style="list-style-type: none"> <li>1. Introduction ZDHC Mission &amp; Vision</li> <li>2. Training Scope &amp; Audience</li> <li>3. Introduction to Chemical Management</li> <li>4. The Chemical Management Team</li> <li>5. Chemical Management – Good Practices</li> <li>6. Hazards and Risk Assessment</li> <li>7. Risk Control Hierarchy</li> <li>8. ZDHC Manufacturing Restricted Substances List (ZDHC MRSL)</li> <li>9. Chemical Risks Communication</li> <li>10. Wastewater Treatment and Monitoring</li> </ol>	<ol style="list-style-type: none"> <li>1. Introduction ZDHC Mission &amp; Vision</li> <li>2. Training Scope &amp; Audience</li> <li>3. Reflexion Day 1</li> <li>4. The Chemical Management Team – Roles &amp; Responsibilities</li> <li>5. Chemical Management – Purchasing Chemicals</li> <li>6. Hazards and Risk Assessment</li> <li>7. Safety Data Sheets (SDS), Global Harmonised System of Classification and Labelling of Chemicals (GHS) and Labelling</li> <li>8. Chemical Risks Communication</li> <li>9. Chemical Management Training</li> <li>10. Safe use of Chemicals</li> <li>11. Transfer &amp; Storage</li> <li>12. Personal Protective Equipment (PPE) &amp; Emergency Response</li> <li>13. Wastewater Treatment and Monitoring</li> </ol>

**Learning:**

By following this training, you will have:

1. Reviewed together with your trainer the characteristics and harmful effects of hazardous chemicals used textiles.
2. Received general guidance on Chemical Management (including use, storage, transfer, treatment and disposal).
3. Received recommendations on how to establish an effective Chemical Management system.
4. Received more detailed information on hazards & chemical risks.
5. Know more about ZDHC MRSL, Functions and Best practices of SDS, Chemical Labelling and Chemical Risk communication.
6. Have learned more about Chemical use and Storage, Emergency response and PPE Selection.
7. Gained knowledge on Environmental Impact Mitigation Measures, Wastewater Treatment and Monitoring.

## 3. Top 10 Issues in Chemical Management

### Course Content

The target audience for this training is the chemical management team of the facility, e.g. EHS Managers, ETP Managers/Technicians, Product Quality Managers, Operations Managers, Chemical Experts, Purchasing Managers, Chemical Storage Managers. The learners have either completed the course Chemical Management in the Textile Industry, have proven knowledge or an operational background in chemical management in the textile, footwear and leather industry.

By enrolling for the course, you are signing up for a one day face to face or a 2 day online training containing:

Input Control Issue	Process Control Issue	Output Control Issue
1. Internal purchasing policy to ensure ZDHC MRSL compliance	6. Knowledge of chemical separation/segregation	10. Capability to identify where WEF hazardous chemical test report results originate in the factory from chemicals
2. Qualified chemical management team leaders	7. Chemical storage and on-site management	
3. Documentation permits and verification	8. General Training in chemical management	
4. Understanding the MSDS	9. PPE implementation and maintenance	
5. Ability to understand and build a chemical inventory		

Learning:

By following this training, you will have:

1. Reviewed together with your trainer 10 frequently identified issue areas when working towards a holistic and effective Chemical Management system.
2. Reviewed non-recommendable practices in the 10 frequent issue areas and discuss the best practice solutions to these issues .
3. Discussed practical case studies that serve as good examples in your day to day practices on the factory floor.
4. Had the opportunity to discuss practical issues with your peers and exchanged ideas about tackling these issues.
5. Had a good follow up on the previous Chemical Management Course by diving deeper into the 10 topics with practical support.

## 4. Wastewater Management

### Course Content

The course 'ZDHC Wastewater Management' is a 1-day face to face programme or two days online program designed to improve your understanding of Wastewater Management.

The intended audience of this course are facilities' ETP managers and technicians, EHS manager, operational manager and chemical experts, who already have certain knowledge and/or operational background in chemical and environmental management in the textile, footwear and leather industry.

By enrolling for the course, you are signing up for the following topics listed in the overview:

<p>1. Introduction to ZDHC <i>Mission, vision, approach and tools</i></p>	<p>3. Sampling Requirements <i>in Accordance with ZDHC Wastewater Guidelines</i></p>	<p>5. Market Available Effluent Treatment Plant (ETP) <i>A high-level introduction of Wastewater Treatment Operation</i></p>
<p>2. Introduction to ZDHC Wastewater Guidelines <i>Wastewater, ZDHC Wastewater Guidelines</i></p>	<p>4. Root Cause Analysis and Corrective Action Plan <i>How to determine root causes in case of non-conformance</i></p>	<p>6. Call for Action <i>Adoption of ZDHC Wastewater Guidelines and ZDHC Gateway – Wastewater Module</i></p>

### Learning:

By enrolling for the course, you are signing up to a one day course containing five different parts:

1. Introduction to ZDHC, including its mission, vision, approach and tools.
2. Introduction to the latest ZDHC Wastewater Guidelines, including sampling and testing requirements
3. Sampling Requirements on Accordance with the ZDHC Wastewater Guidelines
4. Root Cause Analysis and Corrective Action Plan
5. Commonly Available Wastewater Treatment Technology
6. Call for Action, including the use of the ZDHC Gateway Wastewater Module



## 5. Chemical Management for Leather Tanneries

### Course Content

The course 'ZDHC Introduction Chemical Management for leather tanneries' is a 2-day programme designed to improve your understanding of Chemical Management and the effects of hazardous chemical used in the leather industry.

This course is aimed at Factory Managers as well as chemicals and environmental responsible in the leather processing facilities – such as beamhouses, tanning, wet-end and finishing operation, or in other similar capacities. By enrolling for the course, you are signing up for the following topics listed in the overview:

Day 1 – Basic Introduction	Day 2 – Deep Dive
<ol style="list-style-type: none"> <li>1. Introduction to ZDHC Mission &amp; Vision</li> <li>2. Training Scope &amp; Audience</li> <li>3. ZDHC Manufacturing Restricted Substance List</li> <li>4. Chemical Management: An Overview</li> <li>5. Hazard &amp; Risk</li> <li>6. Hazard &amp; Risk In Practice</li> <li>7. Importance of Communicating Chemical Risk</li> </ol>	<ol style="list-style-type: none"> <li>1. Chemical Management: Good Practices</li> <li>2. Comprehensive Review of SDS Communication &amp; Training</li> <li>3. Safe Use of Chemicals, Chemical Transport &amp; On-Site Management</li> <li>4. Chemical Storage Practices</li> <li>5. PPE Implementation</li> <li>6. Emergency Responses</li> <li>7. Disposal of Chemical / Chemical Waste</li> <li>8. Interactive Session</li> </ol>

### Learning:

By following this training, you will have:

1. Reviewed together with your trainer the characteristics and harmful effects of hazardous chemicals used in leather production.
2. Received general guidance on Chemical Management (including use, storage, transfer, treatment and disposal).
3. Received recommendations on how to establish an effective Chemical Management System.
4. Received more detailed information on hazards & chemical risks.
5. Know more about ZDHC MRSL, Functions and Best practices of SDS, Chemical Labelling and Chemical Risk communication.
6. Have learned more about Chemical use and Storage, Emergency response and PPE Selection.

## 6. ZDHC CMS TIG Training

### **Your practical guidance training for ZDHC CMS TIG implementation**

The training course 'ZDHC Chemical Management System Technical Industry Guide' (ZDHC CMS TIG) is designed to further develop understanding of the CMS TIG Framework. It also provides practical guidance for the implementation of CMS TIG minimum requirements and best practices.

The course is aimed at relevant personnel within suppliers' organisations, as well as the auditors evaluating facilities for their CMS implementation.

The ZDHC CMS TIG training and guide focus on harmonising requirements across Brands and Suppliers in the implementation of sustainable chemical management. The ZDHC CMS Technical Industry Guide (CMS TIG) provides the basis for this. Whether they are a tannery, dye-house, mill, printer, footwear assembly unit, or other kind of facility, Suppliers can tailor and implement their plans to meet the harmonised expectations. The following topics are part of the ZDHC CMS TIG training curriculum:

#### **1. Start of the CMS Journey - Preparation and Planning**

Chemical Management Policy

Chemical Management Strategy

Assessments (regulatory, chemical, supply chain, safer alternative)

#### **2. Build Up through Action - Implementation**

Health & Safety

Chemical Inventory

Storage & Handling

#### **3. Monitor and Accelerate - Review and Update**

Output Management (wastewater, sludge, air emission, solid waste, process control)

Continuous Improvement

#### **Learning:**

Having followed this training, you will have learned how to:

1. Create a policy document that outlines the commitment (statement) of the Supplier's leadership and includes procedures and practices adopted for purchasing, transparency and traceability of chemicals used.
2. Transform that policy into strategy as part of implementing a chemical management system.

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3. Conduct assessments of a supplier's regulatory compliance, chemical hazard and risk, supply chain partners' capabilities and safer alternatives.
4. Implement health & safety actions for chemical exposure control, PPE and emergency response procedures for all staff.
5. Manage a Chemical Inventory List (CIL) and SDS to make informed purchasing decisions, promote responsible chemical use, increase traceability, simplify chemical handling decisions, and control disposal costs.
6. Ensure safe Storage and Handling procedures for chemicals purchased.
7. Use tools to manage Output with respect to wastewater, sludge, air and solid waste outputs. This will reduce pollution and support Process Control to ensure proper implementation of a CMS through holding and controlling records and documents, incidence management, general maintenance and housekeeping.
8. Work on Continuous Improvement practices such as conducting a CMS review, internal or external audits and improvements in identified areas, including onsite training.

This is an advanced training session which will evaluate the score of an organization with its "self assessment score card" and pin point hot spots for improvement and the necessary steps required.

**Please note:** certificates for ZDHC Introduction to Chemical Management and ZDHC Top 10 Best Practices will serve as a stepping stone for your prior gained knowledge of chemical management.

\*Prior to starting any course please share with Leadership & Sustainability any prior ZDHC training certificates you hold.