

Advanced Chemical Management Training Program

Overview

The Advanced Training Program was originally set up to support wet processing plants in China and Bangladesh in establishing detox-compliant chemical management. The program was developed in cooperation with the Strategic Alliance "STA", consisting of *Rewe Group*, *Tchibo* and *GIZ*. Later, *ALDI SÜD*, *ALDI Nord* and the *Otto Group* joined the program and it became part of the Trainings of the Partnership for Sustainable Textiles. The Training aims to provide the knowledge and practical skillset required to replace hazardous chemicals in the wet processing units in a comprehensible way. Therefore, the Chemical Management Training Program could ultimately improve chemical management performance, achieve zero hazardous chemicals discharge and create a sustainable supply chain in the long run.

The Advanced Training Program is a combination of four days of classroom training and three on-site visits. Target of the classroom trainings is to raise awareness and teach general knowledge on the subject. During the factory visits, consultants will then further introduce the program, identify gaps between the operations and best practices, develop a management action plan with the factory and consult on any challenges regarding the implementation. Incorporated into the training is also a train the trainers scheme which helps to increase chemical management capacity in the region. The complete training program will run over approximately 12 months from kick-off to completion. Topics covered in the Training are:

Topic	Learning Outcomes
Introduction to the Chemical Management Framework	Introduction to the Chemical Management Framework
Working with Your Map	Ability to improve your facility's environmental system by understanding the links 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.
Regulation and Compliance Framework	Comprehensive understanding of the regulatory environment of chemicals.
Chemical Flows	Identification of Non-Product Outputs. Analysis And Documentation Of Material Chemical Flows In Your Company.
Identification and labelling of chemicals	Ability to identify chemicals. Overview of Tools And Resources for Chemical Information Profiles. Knowledge to interpret Safety Data Sheets. Ability to apply the requirements from the Globally Harmonised System.
Setting up a chemical inventory	Learning what a chemical inventory should cover and applying knowledge into practice.
Team, Roles & Responsibilities and Expectations	Comprehensive understanding of the skillset required and typical roles and responsibilities in WPU to substitute hazardous chemicals in production processes.

	Ability to conduct a gap analysis by outlining current skillset in house and identifying the gaps in skillset and resource to substitute hazardous chemicals in production processes.
Policy management	Learning key policies and how these can be composed.
Good chemical Procurement Practices	Understanding of good chemical procurement practices, including guidance on how to develop chemical procurement policies. Knowledge on assessing a facility's chemical purchasing practices ensuring that all regulatory requirements are met.
Quality Control	Gaining knowledge on how to conduct a Quality Control Process of chemicals.
Risk Assessment, Hazard Control and Emergency Management	Gaining knowledge on hazards, risks, exposure and effects of chemicals and how to assess risks. Learning about control measures. Knowledge on how to prevent, prepare and respond to emergencies.
Safe Storage & Transport of Chemicals	Knowledge on all aspects of good transportation and storage of chemicals. Know the checkpoints for chemical store.
Managing Chemical Waste	Gaining knowledge on identifying different types of chemical waste. Understanding of good waste management practices.
Waste Water and Sludge	Understand requirements on Wastewater Management and testing. Knowledge on how to identify the output load of effluent. Manage the effluent load by understanding and managing the production planning.
Substitution of hazardous chemicals	Introduction to the six steps to chemical substitution. Learn about substitution examples from the industry.
Critical Thinking and Problem Solving	Understanding the importance of critical thinking. Developing the skillset needed to conduct a root-cause analysis. Knowledge to apply different techniques to problem solving.
Performance Management	Knowledge on selecting meaningful indicators to measure progress.
Practical Session: Defining meaningful Management Actions	Practical session to define credible Management Actions. Including Peer Discussion and Q&A.
Managing the risk of chemical residues in final product	Understand the implications and risks of using hazardous chemicals in production and the impact on your chemical testing result. Knowledge on how to conduct an alternative assessment and plan the phase out of hazardous chemicals.
Environmental Management, Resource Efficiency and Continuous Improvement	Knowledge on environmental management, in particular pollution, and preventive measures. Understand the opportunities from BAT and get to know more sustainable alternatives. Understand how Continual Improvement helps to reduce the impact on the environment and implement more sustainable practices.
Tackling implementation Challenges I	Practical session
WWTP Design and Operation Aspects	Understanding of WWTP designs, treatment technologies and the sequence of treatments. Knowledge of the mapping of these technologies against the chemicals and processes involved in WPU and the control measures to undertake.
Monitor, Review and Follow-Up	Understanding the benefits from monitoring and review processes. Know when to involve stakeholders.