Interactive training approach for Chemical Management

New e-learning based full training by GIZ

2021.05.27 | Gundolf Klaehn

giz Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH

FABRIC Asia

Purpose and goal

Course objectives

➢ *To bridge the gap between demanded action and action taken, GIZ has developed a targeted e-learning based training programme, consisting on the long-term experience of more than 20 years of a resource efficient management of chemicals around the globe.*

The training aims to

➢ make the participants aware of the need for chemical management;

➢ provide guidance on the systematic approach of management systems;

➢ give an overview of existing supporting materials and tools;

➢ support local service providers in enriching training and advisory services.

gíz

Scope of training elements

The target group will learn in a step-by step- approach about

➢ to systematically implement **Chemicals Management** (CM) that **conforms to international requirements**, amongst others ISO-Norms, Detox and Zero Discharge of Hazardous Chemicals (ZDHC).

➢ to develop an understanding of **regulatory requirements** (compliance).

➢ on how to integrate CM into existing **management systems**.

➢ to supplement **sustainability reporting** with data on chemicals management according to international Guidelines (e.g. GRI);

➢ the integration of the training materials into **syllabi of academic and training institutions**;

➢ implementation or upgradation of **resource efficient management** of chemicals in their respective factories;

➢ implementation of chemical **risk control** and health protection and **occupational safety**.

giz

Target groups

The primary target group are representatives involved in chemical management processes, such as

- Middle management with technical background,

- Technical engineers,

- Shift leaders,

- Technicians from textile finishing units and synthetic shoe factories (in particular PU),

- Environment/health & safety experts (EHS),

- Administrators involved in the procurement.

Chemical Management Team

giz

Interactive approach

Combines interactive elements to engage the participants being active and make use of advanced technologies and learning formats

Options of how to use the training materials

Option 1 – Stand-alone self-learning

E-learning based learning units, PDF for download in case of low band width

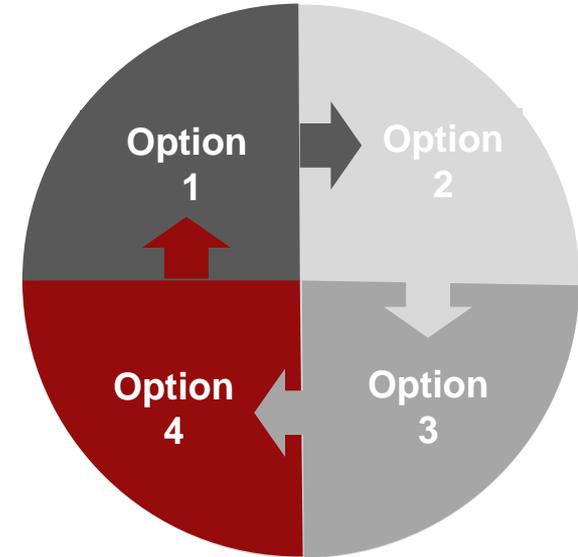**Option 2 –** Integration into a blended learning approach

Trainer guideline for online tutored concept incl. additional training materials

Option 3 – Using materials in a face-to-face workshop

Using same elements as in option 3 incl group works

Option 4 – Supplementing academic learning programs

Need based selection of training elements

giz

Selection of reference materials

Each module offers a compilation of consolidated references and the new Chemical Management course was built on existing toolkits & training materials

- GIZ REMC Company Handbook

- Sust. Ind. Areas (SIA) Chem. Mgt (CM) Toolkit - Presentations

- SIA Chem. Mgt (CM) Toolkit – Lesson Plans

- Zero Discharge of Hazardous Chemicals (ZDHC) Chemical Management Systems Guidance Manual, June 2015

- ZDHC Chemical Guidance Sheets

- ZDHC Chemical Management System Framework Version 1.0, May 2020

- ZDHC MRSL (+Video)

- ZDHC Wastewater Guideline (+Video)

- Outdoor Industry Association (OIA) Chemical Management

- For more references see trainer guideline ...

Additional references, toolkits and other resources used

giz

Structure of learning elements

Modular structure covering 11 thematic self-learning modules, of which several further subdivided into learning unit; building on each other, total number of learning units 23 (between 30 – 60 minutes)

- Introductory module open to all (wider target group)

- Modules 2 - 11 for specific target group (e.g. practioners, CMT members)

- Supported by TOT Handbook, aimed for multipliers/trainers/facilitators

Duration:

- 19 hours of presentations (with voice over)

- 20 quizzes (each about 5 minutes)

- 40 hour estimated total time for completion of assignments

The module structure allows for a flexible adjustment of the training to the different learning needs and styles of the different target groups

giz

Structure of learning elements

Content and structure of the CM self-learning materials

Module 1: Introduction to chemical management

Module 2: Mapping of chemicals and chemical flows

Module 3: Using chemical information sources and ensuring traceability

Module 4: Assessing chemical hazards, exposure and risks

Module 5: Identifying and documenting priority chemicals

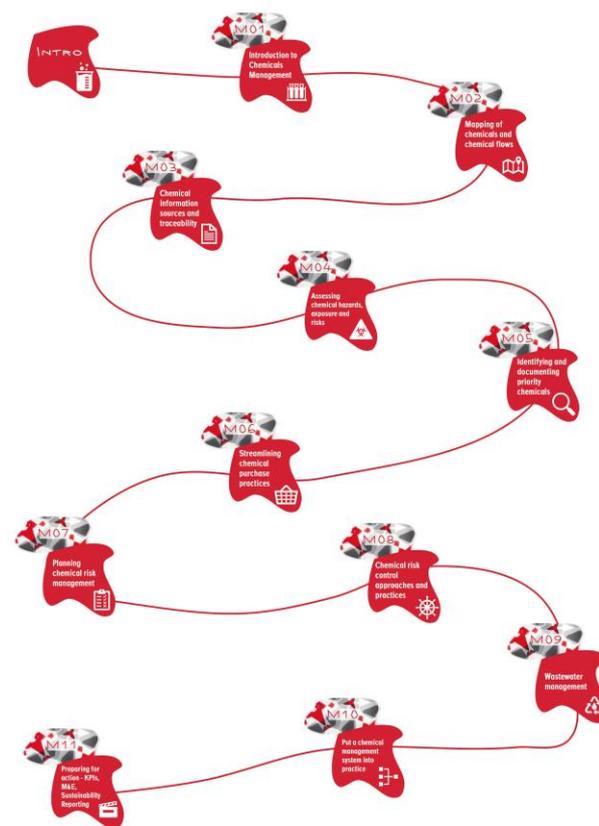Module 6: Streamlining chemical purchasing practices

Module 7: Preparing for chemical risk management

Module 8: Controlling chemical hazards and risks

Module 9: Managing chemical wastewater and waste

Module 10: Streamlining chemical management system and organization

Module 11: Monitoring and reporting chemical management performance

giz

The atingi Learning Management System (LMS)

> **Interactive & moodle based learning environment**

giz

What is atingi?

atingi means "to succeed" in Esperanto and is the **free-of-charge digital learning platform** which can be accessed from any **smartphone or desktop.**

atingi aims to serve learners in **South & East Asia, Sub-Saharan Africa,** the **MENA region** and **South America.**

Sponsored by the **BMZ** & developed by the **German Society for International Cooperation and Development (GIZ)** in cooperation with Smart Africa and the African Union.

Available in German, English, French, Spanish, Arabic, Portuguese; LMS supports **40 languages**

Use our **diverse content portfolio** or create / upload your own; both private & OER; SCORM; **H5P** authoring tool

Browser-based, free of charge, **GDPR*-compliant**. 30+ instruction, assessment & **certification** formats

Connect with existing user based & **partner community** for a multiplier effect & knowledge exchange

Soon: **Offline functionality** via **mobile app** & atingi Box

Federal Ministry for Economic Cooperation and Development

smart africa
CONNECT. INNOVATE. TRANSFORM.

giz Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH

*GDPR = "General Data Protection Regulation" of the EU

giz

The atingi LMS Website (online.atingi.org) is where Learners, Instructors & Admins can register

atingi

HOME   CONTENT LIBRARY   MY CERTIFICATES   LIVE SESSIONS   FAQ'S ▾   ABOUT ATINGI

ENGLISH ▾   LOG IN   REGISTER

Gain valuable skills —

shape your future. learn.connect.act. With atingi

Login or register here

Categories

Digital Skills & Transformation

Entrepreneurship

Management & Leadership

Yoma

Professional Orientation

Health

Agriculture

See all courses

No installation needed: Once registered, this is the Landing Page that Learners see

online.atingi.org/my/

🧭 **HOME**

📁 Content Library

🏆 My Certificates

📅 Live Sessions

❓ FAQ's

ℹ️ About atingi

🧪 Content bank

🔧 Site administration

Categories

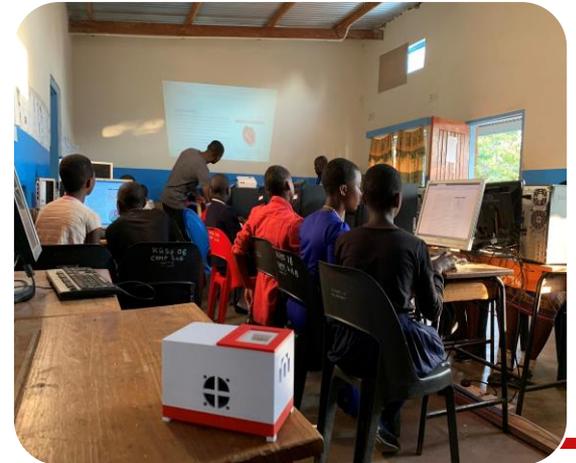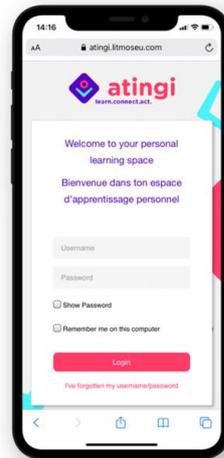|			
Digital Skills & Transformation	Entrepreneurship	Management & Leadership	Yoma
Professional Orientation	Health	Agriculture	See all courses

atingi

Our offline solutions:

atingi in a box!

A **Raspberry-Pi based microserver solution**; creates a local wifi making the LMS and its content accessible from **any browser-enabled device** (tablet, desktop, smartphone) with minimal synchronization with the cloud required (e.g. once a month).

atingi in your pocket!

Our **mobile Android & iOS app** works on smartphones and tablets. The app also enables offline access to learning contents!

giz

atingi currently offers 300+ open educational *'glocal'* (global & local) courses, as well as the option to keep your content closed. We're always expanding our current topic & content range:

Agriculture & Green Issues

Digital Transformation

Digital economy

Governance & Decentralization*

Management, Leadership & Entrepreneurship

Vocational training

Healthcare

Sustainable Tourism*

Outlook and use of training

✓ Full training course **available on atingi** from July onward.

✓ Use of **training materials for free**, including use of LMS for trainers.

✓ Until October 2021 full training available in: Arabic, Bengali, **Chinese (Mandarin)**, French, Indonesian (Bahasa), Turkey, Urdu, Vietnamese.

✓ **Additional presentation materials** will be provided for trainers for online live sessions with participants. → also to be used for face-to-face trainings.

✓ **Additional work sheets** and assignemts are available within the REMC Toolkit materials www.sia-toolbox.net (only in English).

➢ *Training only, <u>NO</u> certification!!!*

giz

Gundolf Klaehn

Head of Environment, Textile Asia

gundolf.klaehn@giz.de

www.giz.de   https://twitter.com/giz_gmbh   https://www.facebook.com/gizprofile/

giz

Deutsche Gesellschaft für
Internationale Zusammenarbeit (GIZ) GmbH

Registered offices
Bonn and Eschborn

Friedrich-Ebert-Allee 32 + 36   Dag-Hammarskjöld-Weg 1 - 5
53113 Bonn, Germany   65760 Eschborn, Germany
T +49 228 44 60 - 0   T +49 61 96 79 - 0
F +49 228 44 60 - 17 66   F +49 61 96 79 - 11 15

E info@giz.de
I   www.giz.de

giz Deutsche Gesellschaft
für Internationale
Zusammenarbeit (GIZ) GmbH