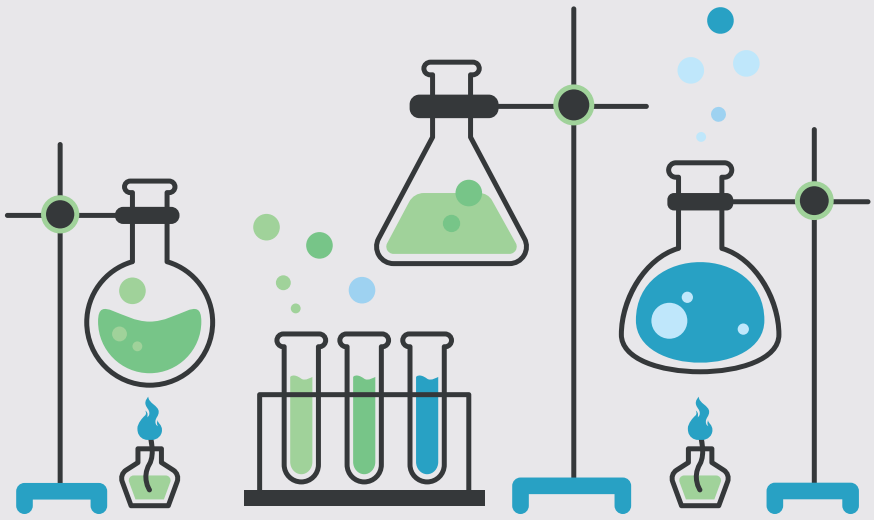
GREEN CHEMISTRY
CHANGE MANAGER



COURSE 2024

A more sustainable and safe handling of chemicals is a clear trend in chemicals' policy.

Module 1 15. - 19.7.2024
Module 2 16. - 20.9.2024
Module 3 18. - 21.11.2024

PROGRAM

INTERACTIVE & ENGAGING LEARNING

Module 1 provides an overview about the global regulatory situation, actors and connecting points for Green Chemistry

Information given in module 2 enables the GCCM to better understand legal, political and practical aspects

Module 3 will focus on the practical implementation of green and sustainable chemistry in a company

14 TRAINING DAYS

In cooperation with

Federal Ministry
Republic of Austria
Climate Action, Environment, Energy, Mobility, Innovation and Technology

Federal Ministry
Republic of Austria
Labour and Economy

Organized by

Feierl : Herzele GmbH

www.gccm.academy

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Why GCCM?

... the flagship of this trend is "**Green Chemistry**", a concept that over a long period was a more academic approach. This is changing and companies are discovering Green Chemistry as a business model. Also during the years past, numerous countries across the globe adopted a more stringent chemicals' legislation, aiming to substitute or better manage the most problematic chemicals.

In particular, the **EU´s Green Deal** opens a window of opportunity to further boost this approach to a highly improved chemicals management. Also, the new **Chemicals Strategy for Sustainability** has recognised Green Chemistry as an important milestone to a cleaner and more sustainable future. And finally, the **Austrian government** has recognised Green Chemistry as an important milestone to a cleaner and more sustainable future.

Therefore, industry needed to start introducing **more sophisticated chemicals-management-schemes**. This transition process is ongoing and in particular, smaller companies are challenged heavily. However, also large companies and institutions are facing significant challenges.

One of the **most pressing challenges is the availability of qualified people**, who are able to understand and keep track of the fast-changing regulatory environment for chemicals. Applying Green Chemistry fundamentally changes the way one manufactures and uses chemicals. Foresight, a full understanding of supply chains and the complexity of chemicals` impacts are crucial. In this context the GCCM training will also address the highly pressing social challenge of gender equality by proactively approaching women to join as participants and lecturers. This should be a valuable contribution to the professional development and positioning of women in relatively masculine domains.

Right now, typical chemicals' management focuses on how to handle available chemicals, e.g. by implementing requirements from safety-data-sheets or worker-protection-legislation. The cooperation among different divisions – like marketing, product-stewardship, purchase, R&D etc. – is often highly rudimental. In such an organisational environment, a Green Chemistry approach cannot develop to its full potential.

The **transition to a green and sustainable chemicals'-use and the full exploitation of its opportunities** requires that all relevant organisational units work together, and the company management is involved. A common strategy and cross-linked cooperation is necessary. Such cooperation needs efficient steering and this would be the role of the GCCM ("Green Chemistry Change Manager").

Why you should attend ?

1

THE ROLE OF THE GCCM IN A COMPANY SHOULD BE:

- to optimise the use of available resources
- to actively steer the transformation process
- to track relevant future trends and developments
- to contribute to a sustainability strategy
- to recognise and understand relevant interactions of technical, political, legal and international nature
- to be a company´s advocate for "Green Chemistry"

2

THE GCCM-TRAINING WILL FOCUS ON FACILITATING:

- knowledge building about the theoretical concept of "Green Chemistry" and its definition, in particular the 12 principles established by John Warner and Paul Anastas
- the ability to think cross-linked and act accordingly
- the knowledge to develop a modern and efficient chemicals management
- the knowledge about innovative and sustainable approaches including their practical application
- gender equality in chemicals management

3

THE COURSE STRUCTURE & WHO SHOULD ATTEND?:

- the GCCM-training is a modular training consisting of three modules á 5/5/4 days; over a period of 6 months
- maximum 18 participants per course
- lots of hands-on-activities (e.g. examples, discussion)
- the participants should implement their acquired knowledge immediately in practice
- the target group aims at business support experts/providers, e.g. from: businesses /sme companies, consultants / multipliers, public service / academia

14 Training Days. 3 Modules. 1 Location.

Module 1
"regulatory"

July 15-19 - 5 days

Location: Vienna

This module provides a global overview about the global regulatory situation, its main actors and its relevance for "Green Chemistry"

Module 2
"substitution/testing"

September 16-20 - 5 days

Location: Vienna

This modul shall give the GCCM the necessary back-ground to better understand legal, political and practical aspects.

Module 3
"management/business"

November 18-21 - 4 days

Location: Vienna

This modul will focus on the practical implementation of green and sustainable chemistry in a company.

HOLIDAY INN VIENNA CITY

Margaretenstraße 53, 1050 Vienna, Austria

#1

July
15-19

5 days

MODULE 1

Module 1 - "regulatory"

This module provides a global overview about the global regulatory situation, connecting points for "Green Chemistry" and its main actors.
The main objective is to make the GCCM understand:

- introduction to change management and to the training
- introduction to the concept and definition(s) of "Green Chemistry"
- the legal requirements to stay in or enter a specific market
- the political focus of different regions
- potential synergies among different regions
- potential opportunities and
- important sources of information

Speakers:

Alejandra Acosta – LATAM Consultant
Ester Carregal Romero – OECD
Gabriela Eigenmann – UNIDO
Thomas Jakl – BMK
Emel Kasim – 3E Company
Marko Sušnik – SMEunited
Martin Wimmer – BMK
Li Xiang – CIRS
Bryan Zhou – CIRS

HOLIDAY INN VIENNA CITY
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MONDAY

13.00 Welcome and Introduction
13.30 Introductory round
14.00 Introduction to Green Chemistry
14.30 Moderated discussion
15.30 Presentation results / final discussion
16.00 Coffee break
16.30 Overview of the regulatory elements of REACH
18.00 Focus on drivers for substitution
18.30 End of Day 1

TUESDAY

09.00 The UN-GHS and its EU-implementation
09.30 The CLP-regulation and main elements
10.00 Exercise
10.15 Further regulatory instruments for chemicals in the EU and their interfaces with REACH and CLP
12.15 Lunch-break
13.15 Further regulatory instruments continued
14.15 Exercise
15.00 CSS and the role of Green Chemistry in the EU
16.00 Coffee break
16.30 Chemicals regulation in the USA
17.15 Chemicals regulation in Canada
17.45 Canada/US-coop.
18.00 End of Day 2

WEDNESDAY

09.00 Role of the OECD
10.15 Coffee break
10.45 Role of the United Nations
12.00 Exercise
13.00 Lunch-break
14.00 Examples of regulatory schemes for chemicals throughout South/Latin America
15.00 Main communalities and differences Cooperation platforms
15.30 Implementation of GHS
16.00 Coffee break
16.30 Political developments and foresight for the American continents
17.15 Green Chemistry Policy in N- & S-American countries
18.00 End of Day 3

THURSDAY

09.00 Chemicals regulation in China
10.00 Chemicals regulation in South Korea
10.30 Chemicals regulation in Japan
11.00 Coffee break
11.30 Chemicals regulation in India
12.00 Chemicals regulation in Turkey
12.45 Lunch-break
13.45 Political developments and foresight for the Asian continent
14.15 Green Chemistry Policy in Asian countries
14.45 Exercise
15.45 Coffee break
16.15 Trends in Extended Producer Responsibility
18.00 End of Day 4

FRIDAY

09.00 Chemicals regulation and Green Chemistry Policy on the African continent
10.30 Coffee break
11.00 SAICM
12.00 Discussion
12.30 Political developments and foresight for Green Chemistry globally
13.00 Political developments and foresight globally
13.30 End of Day 5

coffee / lunch break
exercise / active break
lesson

#2

September 16-20

5 days

MODULE 2

Module 2 - “substitution/testing”

This module shall give the GCCM the necessary background to better understand legal, political and practical aspects related to:

- identification of hazards, risks and exposure related to chemicals and in the light of Green Chemistry
- the availability and application of new approaches to non-animal tests for chemicals
- the relevance of environmental footsprints and the concept of “Safe and Sustainable by Design (SSbD)” in the light of Green Chemistry
- the implementation of new business models and circular economy aspects of Green Chemistry
- chemical and non-chemical substitution of problematic substances
- communication needs inside a company, within the supply chains and to other actors
- the 12 principles of Green Chemistry and their primary chemical target areas

Speakers:

Arno Wess – Innovative Environmental Services (IES) Ltd
Speakers from ECHA and Umweltbundesamt GmbH
Anna Zhenova – Green Rose Chemistry
Clemens Rosenmayr – Wirtschaftskammer Österreich (WKÖ)

HOLIDAY INN VIENNA CITY
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MONDAY

13.00 Welcome and warming-up
14.30 Coffee-break
15.00 Assessing hazards of chemicals in the context of Green Chemistry
17.30 Discussion/presentations: Green Chemistry around us (the participants´perspective)
18.30 End of Day 1

TUESDAY

09.00 Assessing risks/exposure in the context of Green Chemistry
11.00 Exercise - Early identification of problematic chemicals
12.00 Lunch-break
13.00 Excursion to Austrian environmental agency incl. guest speakers of ECHA. Topics:
- Role of ECHA and cooperation with national agencies in the EU
- Future of risk management
- New approaches to non-animal tests for chemicals - availability and application
- IT-tools of the future to support chemicals managment

18.00 End of Day 2

WEDNESDAY

09.00 Communication and cooperation in the supply chain - relevance and approaches
10.30 Exercise - optimising communication
11.30 Internal communication - needs and challenges
12.30 Lunch-break
13.30 External communication - transparency and public trust
14.30 Exercise - analysing own situation
15.30 Role of industry initiatives and voluntary labelling schemes
16.30 Exercise - defining "safe and sustainable by design"
17.30 End of Day 3

THURSDAY

09.00 Safe and sustainable by design
10.00 Environmental footprints
11.00 Exercise - calculating footprints
12.00 Approaching substitution efficiently and systematically
13.00 Lunch-break
14.00 Approaching substitution efficiently and systematically
14.45 Chemical & non-chemical substitution & business models
15.30 Coffee break
16.00 Chemical & non-chemical substitution & business models
17.00 Exercise - analysing own situation
18.00 End of Day 4

FRIDAY

09.00 What is transformation?
09.45 Steering the transformation process towards Green Chemistry
11.00 Coffee break
11.30 Steering continued
12.00 Exercise - transformation towards Green Chemistry
13.00 Introduction to grading of participants
13.30 End of Day 5

#3

November
18-21

4 days

MODULE 3

Module 3 - “management/business”

This module will focus on the practical implementation of green and sustainable chemistry in a company. In particular, the following aspects will be in the focus:

- defining, designing and implementing a “Green Chemical”-approach
- handling the change process and/or managing the relevant steps of a project
- planning and implementing efficient market-access strategies
- implementing a monitoring-scheme to identify risks and opportunities efficiently
- “Green Chemistry” and new business models as a competitive advantage
- available tools and databases
- integrating sustainability/substitution into the R&D-process
- future trends and developments

Speakers:

Marilyn Hamminger – Training, Coaching & Consulting e.U.
Andreas Dragosits – TAB Region Vienna
Phillip Farbowski – HSEQ Manager AT & CH

HOLIDAY INN VIENNA CITY
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MONDAY

13.00 Welcome
13.30 Basics of project management
15.30 Coffee-break
16.00 Basics of project management
18.30 End of Day 1

TUESDAY

09.00 Business Example - role play
10.30 Coffee-break
11.00 Business Example - role play
12.30 Lunch-break
13.30 Interactive viewing of challenges in projects
15.00 Coffee-break
15.30 Team building and the 5 dysfunctions of a team
17.00 Coffee-break
17.15 Team building and the 5 dysfunctions of a team
18.30 End of Day 2

WEDNESDAY

09.00 Talking about mistakes and how to learn from them
10.30 Coffee-break
11.00 Talking about mistakes and how to learn from them
12.30 Lunch-break
13.30 Project marketing
10.30 Coffee-break
16.00 Poster session / presentation of projects
18.00 Break / Poster viewing
19.00 presentation of grading results / dinner

THURSDAY

09.00 Success factor Communication
10.15 Coffee break
09.00 Success factor Communication
12.00 Feedback and farewell

coffee / lunch break
mixed exer-cise / lessons
exercise / active break
lesson

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Labour and Economy

supported by:

ÖSTERREICHISCHE CHEMISCHE GESELLSCHAFT

ChemSkills
Enabling the green and digital skills transformation of the chemical industry.
More info: www.chemskills.eu or info@chemskills.eu
Co-funded by the European Union
WKO

Course Tickets 2024

GO TO WEBSITE

NOTE

Hotel booking, hotel expenses, as well as travel expenses, etc. have to be taken care of by the delegates themselves. The number of delegates will be limited.

ORGANIZER

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