



The European voice of the **adhesive and sealant industry**

FEICA WEBINAR

Complying with the REACH Restriction on Diisocyanates

26 May 2021

13:00 to 14:30 Brussels CET

Proceedings

- Please be advised that this webinar will be recorded for internal use only. By joining, you are consenting to the recording
- We ask participants to turn off their camera to avoid system performance issues. Note that you will be muted upon entry
- During the Q&A session following the presentations, you will be able to use the chat box to ask questions
- In case we don't have sufficient time during the Q&A session to address your question, please feel free to send your question to info@feica.eu
- The presentation slides will be sent to all webinar registrants

Speakers - Moderators



Ms Paula Diaz

FEICA
Regulatory Affairs Manager



Dr Silvio Bassi

COIM
FEICA PU Training Implementation TTF Vice Chair
FEICA PU Restriction and OELs TTF Member



Mr Luc Thys

Soudal
FEICA One-Component Foam OCF TWG Chair and FEICA
PU Restriction and OELs TTF Member



Ms Kristel Ons

FEICA
Secretary General

Agenda

- 13:00 Opening/FEICA introduction
by Ms Paula Diaz, FEICA Regulatory Affairs Manager
- 13:15 Labelling and information requirements
by Dr Silvio Bassi (COIM), FEICA PU Training Implementation TTF Vice Chair and FEICA PU Restriction and OELs TTF Member
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Ms Paula Diaz
FEICA
Regulatory Affairs Manager

Opening/FEICA introduction

MARKET

7 end-user markets



employs more than

45,000 people



14 technologies



470 million euros

on Research and Innovation investment



17 billion euros

contribution to the EU economy



2%

of European chemical industry's turnover



5 million tonnes

of adhesives and sealants



250,000

different products for the most diverse applications

COMMUNITY

800

adhesives and sealants producers in Europe

165

adhesives and sealants experts



ACTIVITIES

6 key projects

- ▶ Circular economy
- ▶ Safe use of mixtures
- ▶ Good practice
- ▶ Food contact
- ▶ Innovation and education
- ▶ Model EPDs

85

publications annually



COMMUNICATION

10,000

connections on LinkedIn



5,000

followers on Twitter and Instagram



8

events per year



bringing together **3,000**

industry stakeholders

VISION



The adhesive and sealant industry is committed to enabling a growing population to live a better life and to use the planet's resources responsibly and efficiently.

FEICA's mission is to support the industry in this objective by focussing on **sustainable development, health & safety and innovation.**

FEICA - Association of the European Adhesive & Sealant Industry

15 National Associations
representing 16 countries
+800 members



24 Direct Company Members



19 Affiliate Company Members



What are diisocyanates ?

- Basic components of polyurethane (PU)
- Used in the manufacture of many different products including adhesives and sealants
- **No commercially viable alternative to many diisocyanates**



Are diisocyanates safe?

- Depending on the Diisocyanates, they are known as:
 - Skin irritants and sensitisers
 - Eye irritants
 - Respiratory sensitisers
 - Some Diisocyanates are fatal if inhaled
- The use of Diisocyanates is safe when they are handled according to relevant risk management and safety measures
- **Final products do not contain Diisocyanates and are therefore devoid of hazard and risk**

Possible hazard labels for some Diisocyanates in Safety Data Sheets:



Health Hazard



Serious Health Hazard

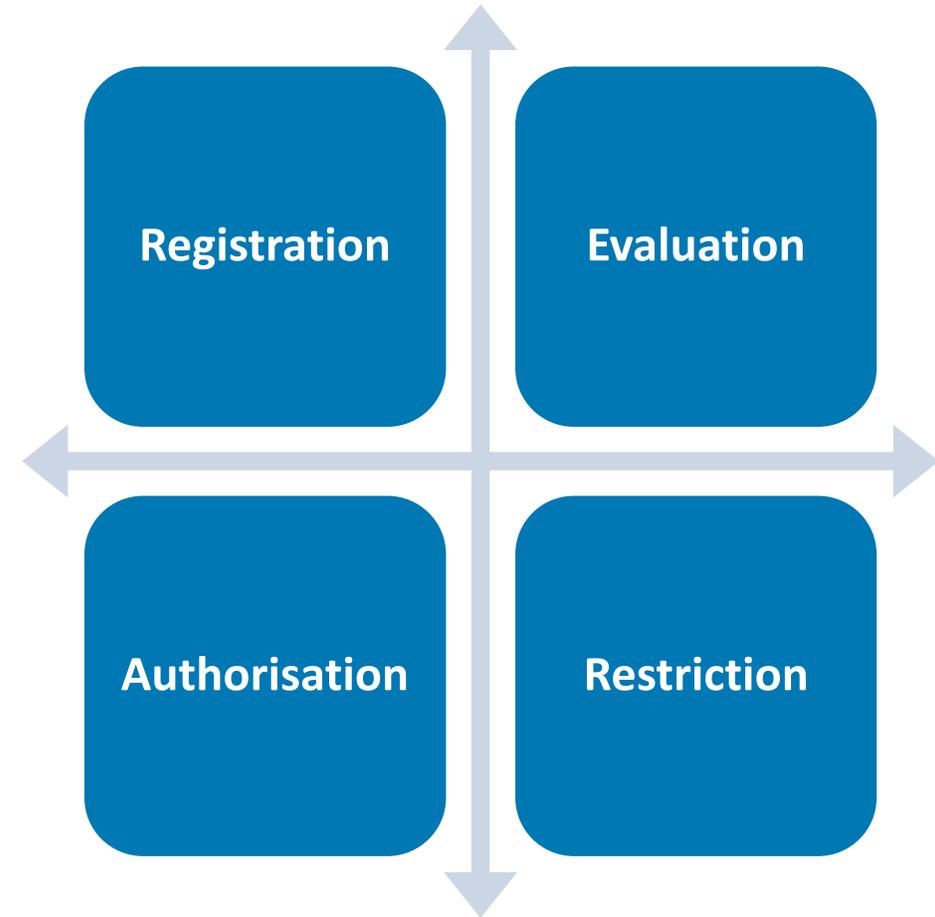


Acute Toxicity

The REACH Regulation

The REACH Regulation aims to:

- improve the protection of human health and the environment
- while enhancing the innovation and competitiveness of the EU chemicals industry
- through four different processes



The diisocyanates restriction

The **REACH restriction on diisocyanates** was published in the Official Journal of the European Union on 4 August 2020.

- Addressed to industrial and professional uses
- Targeted at avoiding the unsafe handling of diisocyanates, not at restricting product availability
- Polyurethane adhesives and sealants will remain widely available.



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COIM

FEICA PU Training Implementation TTF Vice Chair
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Labelling and information requirements

Information provision

The diisocyanates restriction establishes that suppliers, in addition to the usual HSE data, should provide end users with information about the training on the safe use of diisocyanates.



However, detailed instructions about **how** suppliers must provide end users with such information are not provided in the restriction text.

Several actions have been carried out by FEICA to allow members to provide their customers with the required information.

Raising awareness and answering questions

Dedicated FEICA website for the general public: <https://www.feica.eu/our-priorities/safe-use-diisocyanates>

Leaflet providing general information translated into eight EU languages: '[A safe future for polyurethane products](#)'

Leaflet for end users: '[Diisocyanates restriction compliance for end users of adhesives and sealants](#)'



PU info website

- A FEICA information webpage has been created and is frequently updated
- Providing our customers, the end users of adhesives and sealants, with information about the training development
- Once training materials are available, a link to the training platform will be added to the webpage



🏠 About FEICA ▾ Our industry ▾ Our priorities ▾ Membership ▾ Information centre ▾

PU restriction - Information for industrial and professional users

A new restriction on diisocyanates

On 4 August 2020, a new restriction on diisocyanates was adopted by the European authorities under REACH, targeting respiratory and dermal sensitisation potentially caused by diisocyanates. The new restriction requires training prior to use for adhesives and sealants containing polyurethane.

There are two important dates to take note of:

24 February 2022

From 24 February 2022 at the latest, all PU products for which safety training is required can be identified by the following statement: *'As of 24 August 2023, adequate training is required before industrial or professional use of this product. Further information available at www.feica.eu/PUinfo.'*

24 August 2023

As of 24 August 2023, successfully completed training will be required for all professional and industrial users of products **with a total monomeric diisocyanate concentration of > 0.1%**. The training does not amend existing health and safety requirements, but is **additional** to them.

To this end, FEICA, together with ISOPA and ALIPA, the diisocyanate manufacturers' industry associations, is preparing training material in line with the legal requirements in all the European Union languages.

The training material will be made available via an e-learning platform. Once the training material is public, the direct link to the training platform will be shared on this page.

The training will be available in other formats, such as on-site training. **Please also check for additional national provisions in your country.**

PU info website

Different paths to add to the labels or share with end users are presented there:

<https://www.feica.eu/PUinfo>

www.feica.eu/PUinfo

feica.eu/Puinfo



Mandatory Labelling

As of 24 February 2022, diisocyanates containing products intended to be used in industrial or professional settings, with a total monomeric diisocyanate concentration greater than 0.1 % shall include the following phrase on their packaging:

'As of 24 August 2023, adequate training is required before industrial or professional use of this product'.

By the way, in the legal text it is clearly said that this sentence should be visibly distinct from the rest of the label information.



Additional labelling instructions

The legal text does not provide further information on the labelling requirements, such as:

- size or location
- language requirements
- inner/outer packaging rules
- small containers
- etc.



FEICA proposal for members

- Labelling changes need to be implemented in advance; we have a little of time because the legal obligation will start in February 2022.
- FEICA strongly urges its membership to start adapting labels immediately to comply with the mentioned requirement
- A suggested labelling text for FEICA members is:

***As of 24 August 2023 adequate training is required before industrial or professional use.
Further information at www.feica.eu/PUinfo***



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Training requirements



Training Requirements - Timing

- After 24 August 2023, an employer or self-employed person has to ensure that:
 - Industrial or professional user(s) OR supervisors of these tasks,
 - Have successfully completed training on the safe use of diisocyanates prior to the use of the substance(s) or mixture(s)
 - containing a concentration of diisocyanates > 0.1% by weight
- Products will mention this on the label at least 18 months prior to 24 April 2023 to allow companies time to organize appropriate training
- Member States may implement or continue to apply their own national requirements for the use of diisocyanates as long as the minimum requirements of the restriction are met

Training Requirements - Implementation

- The Training shall include instructions to control:
 - Dermal and Inhalation exposure at the workplace
- The Training is to be implemented irrespective of:
 - Any national Occupational Exposure Limit (“OEL”) value or
 - Other appropriate risk management measures at the national level
- Three Levels of Training are to be implemented
 - **A. General** Training
 - **B. Intermediate**-level Training
 - **C. Advanced**-level Training
- Each Training Level will include documented proof for the trainee when completed successfully

A. B. C.

Training Requirements – 3 Levels

- **A. General Training** is required for ALL industrial and professional uses
- **B. Intermediate-level Training** is required for:
 - handling open mixtures at **ambient temperature** (including foam tunnels);
 - spraying in a ventilated booth
 - application by **roller**, by **brush** or by **dipping and pouring**
 - mechanical post treatment (e.g., cutting) of not fully cured articles which are **not warm** anymore
 - cleaning and waste treatment
- **C. Advanced Training** is required for:
 - handling incompletely cured articles (e.g., freshly cured, still **warm**)
 - foundry applications
 - maintenance and repair that needs access to equipment
 - open handling of **warm or hot formulations (> 45 °C)**
 - **spraying** in open air, with limited or only natural ventilation (includes large industry working halls) and spraying with high energy (e.g., foams, elastomers)

Training Requirements – Level A. General

- These topics are required for ALL trainees, also for level B and C:
 - **chemistry, exposure and toxicity hazards** of diisocyanates
 - occupational exposure limit values and how **sensitisation** can develop
 - **importance of volatility** for risk and odour as indication of hazard and ventilation
 - viscosity, temperature and molecular weight of diisocyanates
 - **personal hygiene and personal protective equipment** needed, including practical instructions for its correct use and limitations
 - **risk of dermal and inhalation exposure** and in relation to the application process
 - skin and inhalation protection and behaviour-based safety
 - cleaning, leakages, maintenance and discarding of empty packaging
 - protection of bystanders
 - identification of critical handling stages
 - specific national code systems (if applicable)



Training Requirements – Level B. Intermediate

- This level includes level A Training content as well as:
 - additional behaviour-based aspects
 - maintenance
 - management of change
 - evaluation of existing safety instructions
 - risk in relation to the application process used



Training Requirements – Level C. Advanced

- This level includes levels A and B Training content as well as:
 - additional training needed for the specific uses including:
 - **spraying** outside a spraying booth
 - open handling of hot or warm formulations (> 45 °C)



Training Requirements – Training Material

- The supplier must ensure that training material is **provided**
- Training should consider the specificity of the products supplied
- Training is required in the **official languages of the member states** where the substances or mixtures are supplied

- The restriction also mentions the option of on-line training
- Training is to be renewed every 5 years

- Training remains subject to any national provisions and requirements, if applicable

**5 Years
Renewal**

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FEICA
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Training implementation

A joint industry effort

- **Industry** along the entire supply chain is working closely together to **develop the required sets of training materials** and a **platform** for all users to access
- The **Polyurethane Exchange Panel** provides information to authorities, permitting REACH regulators to have a **pragmatic and harmonised approach**, which can be applicable to **all companies, including SMEs**
- FEICA has developed **tailor-made** training material for **adhesive and sealant users**

EU

ALIPA (aliphatic isocyanates)
APPLIA (home appliances)
CEC (footwear)
CEPE (coatings and paints)
COTANCE (euroleather)
EFCC (construction chemicals)
EFIC (furniture industry)
EPF (panel federation)
EPDLA (polymer dispersion & latex)
ETRMA (rubber)
EUPIA (printing inks)
EURATEX (apparel and textile)
EUROMOULDERS (moulded PU parts)
EUROPUR (flex PU foam blocks)
FECC (chemical distributors)
FEICA (adhesives and sealants)
FERFA (resin flooring)
ICOMIA (marine industry)
ISOPA (arom. diisocyanates & polyols)
PPA EUROPE (panels and profiles)
PU EUROPE (polyurethane insulation)
RTP RESIN (resins)
PDA EUROPE (polyurea)

DE/BE

DEUTSCHE BAUCHEMIE
FEDUSTRIA
FSK
IVK - INDUSTRIEVERBAND KLEBSTOFFE
VDL (coatings)
ZVEI (electric and electronics)

A joint industry effort

- in **all official languages** of the Member States
- Industry consortium has developed a **training platform**, providing the **training material** in various ways:
 - Web-based training (individual E-learning)
 - Classroom training
 - Virtual classroom training
- **3 levels** of training, intended for different users:
 - I: Basic
 - II: Intermediate
 - III: Advanced
- Each level will have several **modules** with 16 foreseen in total
- Training complies with provisions of the Member State in which the user operates
- A **certificate** demonstrates successful completion of the training

ACCREDITED TRAINER / IN-HOUSE COMPANY
/ PUBLIC AUTHORITIES / ...

Dedicated training for adhesives and sealants

Module for **professional users** (non-industrial)

- Estimated more than a million professional users
- Typically using a polyurethane sealant or a one-component foam
- One basic training module covers all training requirements for professional adhesives and sealants users



Gap filling in construction

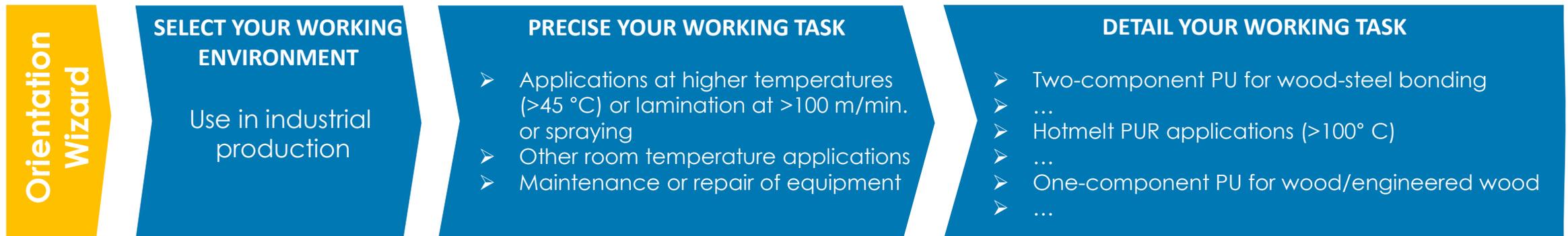


Glazing and body repair of vehicles

Dedicated training for adhesives and sealants

Modules for **industrial users**

- Training levels depend on risk of exposure (no risk / low risk / increased risk)
- 3 levels of training, intended for different types of industrial users:
 - I: Basic
 - II: Intermediate
 - III: Advanced



Examples of dedicated training – industrial use



1- & 2-component polyurethanes for industrial bonding applications at room temperature



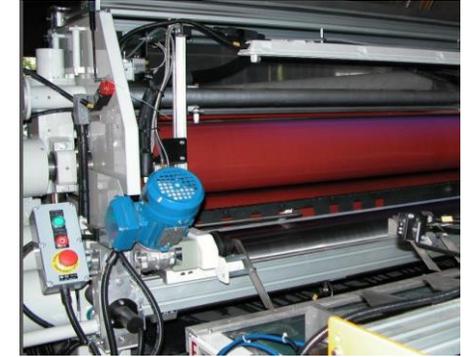
1-component polyurethane in automotive production for direct glazing at vehicle manufacturing and repair as well as body assembly



Crosslinkers for dispersions



1-component polyurethane in the wood /engineered wood industry



Application process above 45° C and/or high machine speed



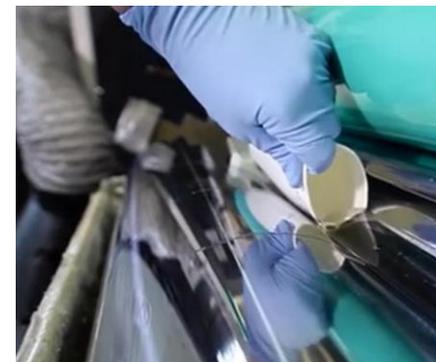
1- & 2-component polyurethanes for sandwich panel lamination



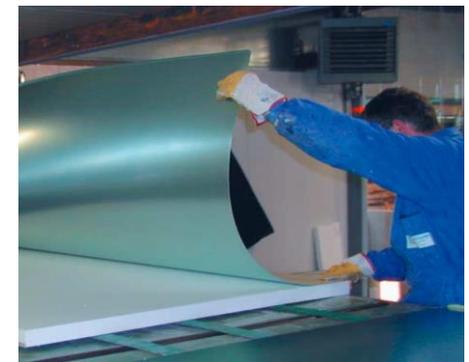
2-component polyurethanes for high pressure transfer moulding



2-component polyurethanes for wood-steel bonding



1- & 2-component liquid reactive polyurethanes for lamination at high machine speed

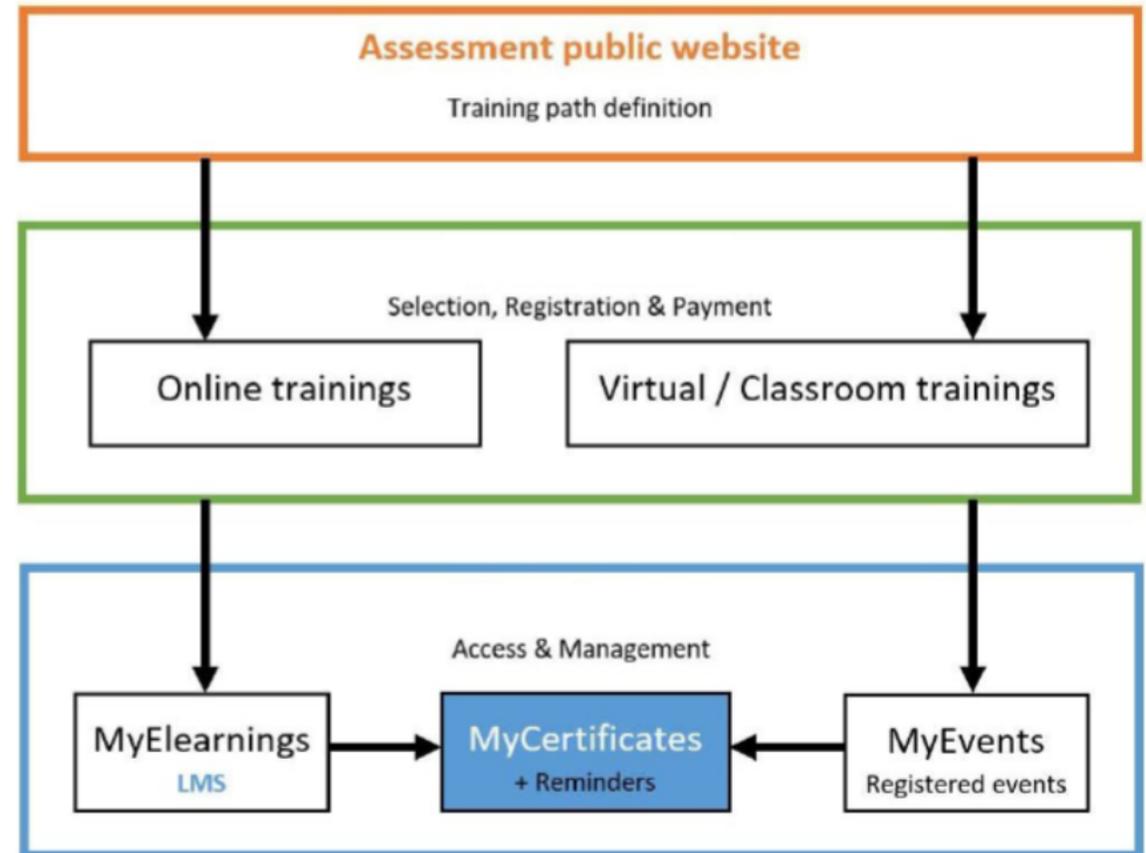


Reactive polyurethane hotmelts (PURHM) – General Remarks

Components of the portal



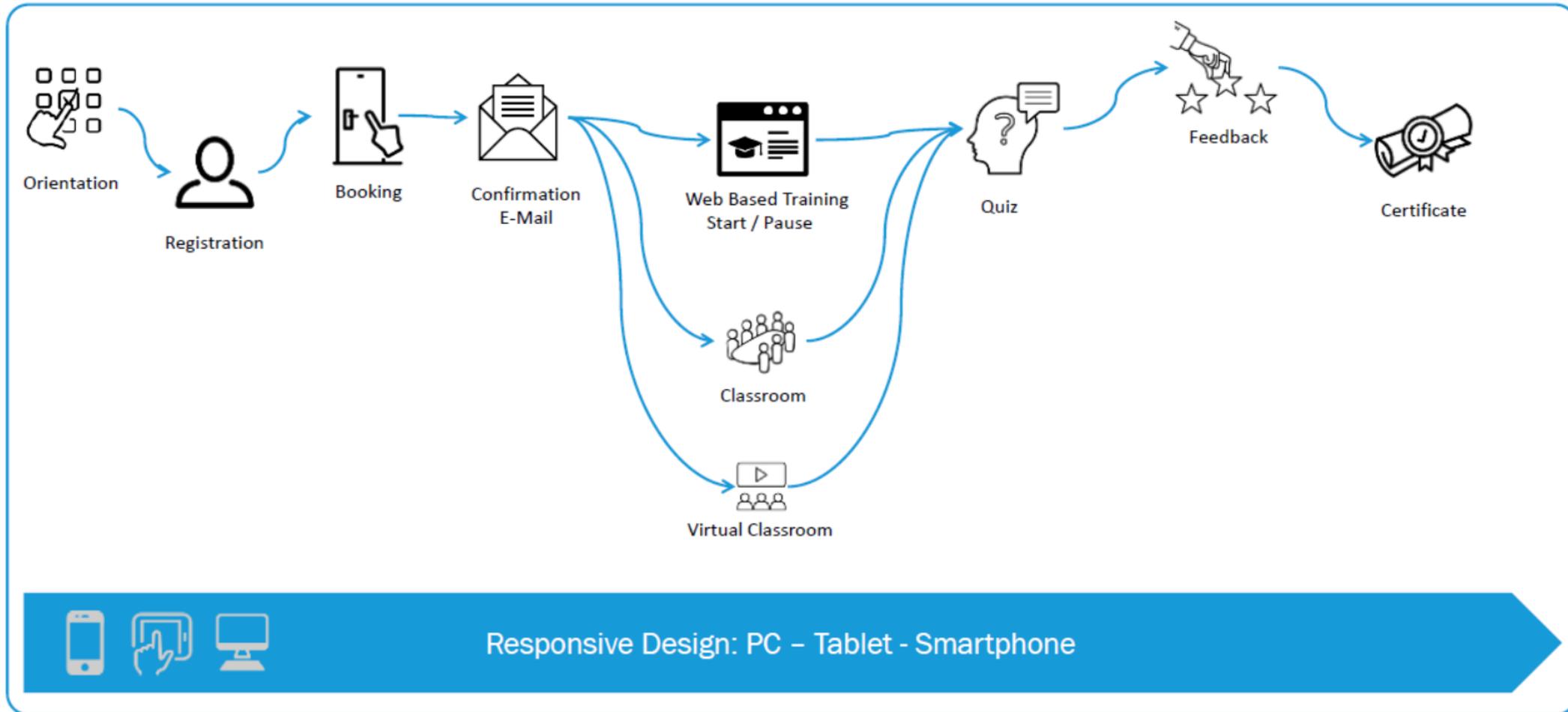
- **Log in** on the portal
- Choose whether you like to follow a **web-based** training or participate in a **virtual classroom**
- Choose your **language**
- Select your training with the portal's **orientation wizard**
- Follow the **training** appropriate for your job
- Take the **quiz**
- Save or print your **certificate**



Graphic: © Isopa/Alipa

Taking the training in a virtual or face-to-face classroom setting?
Your trainer will provide the training and assist you.

Overview of the portal



Graphic: © Isopa/Alipa

Timeline - a preview



Example of E-learning landing page of the platform

- Pilot currently ongoing (ENG/DE) until September 2021
- **Going live** (ENG/DE) foreseen **October 2021**
- Roll-out of all EU languages planned February 2022



Graphic: © Isopa/Alipa

More information

- For details related to **adhesives and sealants**, PU training and labelling requirements, please check out FEICA's dedicated webpage:
<https://www.feica.eu/PUinfo>



Once the training material is made public, this page will directly link to the training platform!

- For general information about diisocyanates and their safe use, REACH restriction, training overview and the PU Exchange Panel, please consult ISOPA / ALIPA's webpage:
<http://www.safeusediisocyanates.eu/diisocyanates-reach#joint-industry-effort>

THANK YOU

Interested in future FEICA webinars?

<https://www.feica.eu/information-center/events-conferences/upcoming-events>

Other interests or questions?

info@feica.eu