

## Apprenticeship: Safe-by-Design Concept Training and Safe-by-Design Implementation Platform Training

How do I apply the Safe-by-Design concept including the web-based platform in my organization?

Safe-by-Design helps you to more transparency, safer nanomaterials and products as well as lower cost!

The TEMAS training for the Safe-by-Design (SbD) application takes place in two steps:

1. The concept training includes a general introduction to the Safe-by-Design concept. It covers the fundamentals of the application and attainment of benefits for the organization. It provides decision criteria for the SbD application.
2. The implementation training is company-specific while maintaining strict confidentiality. It includes project plan coordination of the SbD phases, the development of project-specific safety dossiers and safety profiles as well as the application of the web-based SbD implementation platform to support the SbD approach and SbD work.

*The Goal:* To bring regulatory compliant nanomaterials and products with nanomaterials that have preferably low uncertainties and risks to the market.

*The SbD usage:*

- Uncertainties and risk potentials will be identified early on during the development of nanomaterials and its product application, and through that will be reduced to the lowest cost.
- Actions and conditions regarding the handling or the acceptance of remaining risks can be deployed early.
- The required data and information of materials and products can be fine-tuned with specific safety profiles to the right target groups.
- The trust of the target groups is built through the transparency of data and safety-relevant information in the safety profile.
- The safety profile can build the foundation for the applicable regulation of the required dossier as well as the foundation for safety-relevant documentation.

### 1. Safe-by-Design Concept Training

The introduction of SbD is intended for the decision makers of the organization in innovation, development, quality assurance, marketing and management.

The concept training includes the following modules:

- Overview of opportunities and risks of nanomaterial application as well as the SbD usage.
- Overview of possibilities to reduce uncertainties and increase the safety of the application and development of nanomaterials in products.
- SbD concept as part of the project plan, an innovation model or an integrated management system with applicable processes.
- Definition of the minimum required data and information along with the different development phases based on the applicable regulation in order to reduce the barriers of entries per phase to a minimum.

- Overview of harmonizing concepts, tools, methods and data sources to process the required data and information as part of the safety dossier.
- Data acquisition and consolidation along the development process and the possibility to support the data provisions for the application registration, if needed.
- Handling of material and product specific data and information for different target groups.

## 2. Safe-by-Design Implementation Training

This company or project specific training is specifically designed for concrete applications and is ideally intended for the appropriate project team of an organization.

The implementation training will be generally put together project or company specific and includes the following but not limited to modules:

- Introduction to the four fundamentals of the SbD implementation
  1. Instructions for the SbD integration in industrial research and development projects and innovation processes.
  2. Introduction to the harmonized inventory of concepts, tools or procedures as well as databases and data sources.
  3. Introduction to the handling and application of safety dossier.
  4. Introduction to the development of safety profiles of nanomaterials or products with nanomaterials.
- Structure analysis of existing project plans for the SbD application.
- Implementation of SbD concepts into an existing innovation model and the project plan coordination with the SbD phases, respectively.
- Establishing content of safety dossier such as phases/stages of the project, applicable regulations and allocating data and information to the target groups.
- Establishing of gate pass criteria.
- Handling uncertainties.
- Development of the safety profile.

All modules are supported by the web-based SbD implementation platform. With this in mind the platform is a component of the training as well.

We would like to give you more information. [Can we reach out to you?](#)

Or do you want to contact us? Then Dr. Blanca Suarez-Merino is available to you:



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