

NaMiTec pilot project:

Development of an education and training concept to increase the contribution to sustainable development in dairy technology

Modellversuch NaMiTec:

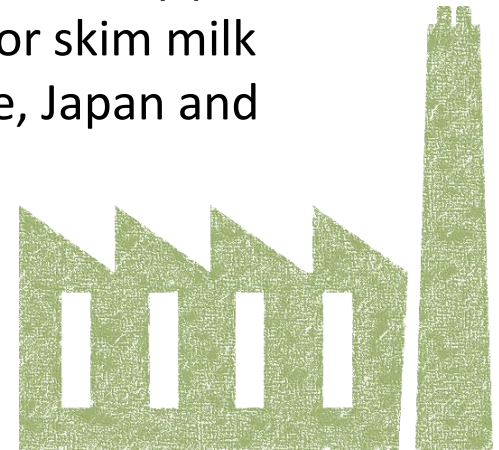
Entwicklung eines Aus- und Weiterbildungskonzeptes zur Erhöhung des Beitrages zur **Nachhaltigen** Entwicklung in der **Milchtechnologie**

Agenda

- Dairy industry in Germany
- Project NaMiTec: Development of a training concept in vocational education and training to increase the contribution to sustainable development in the dairy industry
 - project partners in NaMiTec
 - educational materials developed in NaMiTec
 - embedding the educational materials in the dual vocational training in the training occupation dairy technologist
 - conditions for success

Dairy industry in Germany

- Part of the food processing industry
- dairy companies are the second strongest sector of the German food industry (Sales 2020: 29,5 billion euro; 2019: 29,0 billion euro)
- 229 companies, 170 employ more than 50 people
- Germany's exports of milk and dairy products were greater than imports in 2021, Germany's largest trading partners for export of dairy products are, by a wide margin, the member states of the EU (for skim milk powder, China and for semi-hard and semi-soft cheese, Japan and Chile received the largest export volumes in 2021)
- In 2020, 44,469 people were employed in German dairy industry



Quelle: Bundesanstalt für Landwirtschaft und Ernährung (2022): Bericht zur Markt- und Versorgungslage mit Milch und Milcherzeugnissen, Bonn.

Project NaMiTec (01.05.2018 - 31.10.2021)

Development of a training concept in vocational education and training to increase the contribution to sustainable development in the dairy industry

Three project partners from science and practice
with links to vocational training



University of Osnabrueck
Institute for Educational Science
Department of Vocational Education



LUFA North-West
Dairy Education Center



Fraunhofer-Gesellschaft
Institute for Environmental, Safety
and Energy Technology

Project NaMiTec

The first step was to identify typical professional requirements and competence expectations for trainees and trainers in the dairy industry

- ✓ through expert workshop with practice partners (dairies and other stakeholders)
- ✓ by considering the curricula (e.g. *Ausbildungsverordnung* and *Rahmenlehrplan*)
- ✓ through discussions with people involved in vocational training in the sphere of dairy technology

Afterwards, educational materials were developed taking into account the workshop results, the training regulations and the curriculum in cooperation with practice partners and experts

Project NaMiTec – educational materials





1) Basic knowledge of sustainability



4) Corporate co-determination and trade unions



2) Dairy packaging



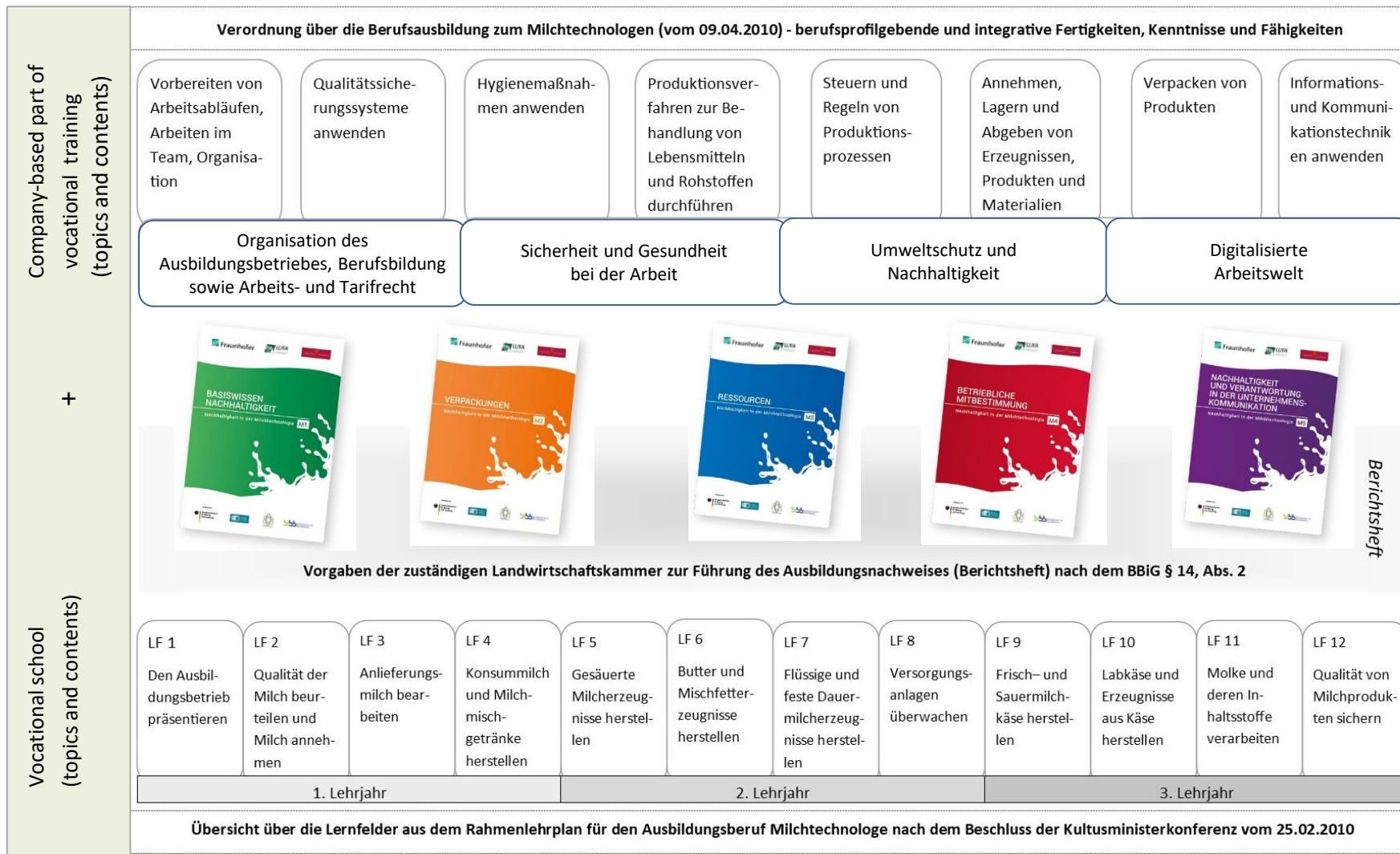
5) Sustainability and responsibility in corporate communication



3) Resources (water and energy)



Embedding the educational materials in the dual vocational training in the training occupation dairy technologist





Online:
<https://www.lufa-nord-west.de/index.cfm/article/2150.html?source=pareto>



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Conditions for success

Sustainability in vocational education and training should always be based on skilled work - linked to the company's internal processes and workflows.

Educational materials should...

- be developed in close cooperation with companies, teachers and the trainees themselves.
- be closely connected to the curricula.
- be attractively designed.
- be available as Open Educational Resources (OER) and free of charge.

The long-term use of the materials and their integration into training practice should be thought through and designed from the outset.

Good communication throughout the process is essential, especially with stakeholders.

Informationen zur Berufs- und
Wirtschaftspädagogik

Aktuelle Meldungen

- Aktuelle
- Archiv
- Suche Meldung

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(Bals)

Professur für Berufs- und
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(Frommberger)

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Wirtschaftspädagogik (Lange)

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07. April 2022

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Ausgezeichnet für seinen Beitrag zur nachhaltigen Entwicklung: Der Modellversuch NaMiTec

Das Bundesbildungsministerium (BMBF) und die Deutsche UNESCO-Kommission würdigen das im NaMiTec-Modellversuch entwickelte Konzept zur Berufsbildung für nachhaltige Entwicklung in der Landwirtschaft.

Der NaMiTec-Modellversuch ist am Mittwoch, dem 30. März, für seine Entwicklung und seinen besonderen Einsatz für die Globalen Nachhaltigkeitsziele der Vereinten Nationen vom Bundesministerium für Bildung und Forschung und der Deutschen UNESCO-Kommission „ausgezeichnet worden. Die Auszeichnung wurde vom Milchwirtschaftlichen Bildungszentrum der LUFA Nord-Niedersachsen, entgegengenommen.

Am NaMiTec-Modellversuch waren mit dem Fachgebiet Berufsbildung der Lehrstuhl von Professor Frommberger das Milchwirtschaftliche Bildungszentrum des Institut UMSICHT beteiligt. Im Rahmen des Modellversuchs

Materialien speziell für



Thanks for your attention!



Contact details



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