Greening TVET

Pro DEENLA
Learning Modules

Submitted by **BIBB, Germany**

BILT Innovation and Learning Practice

Pro DEENLA addresses the need for vocational training in the transportation and logistics sector that is responsive to social and industry concerns. This training includes competencies for sustainable vocational action provided via 27 learning tasks across ten modules. The modules are designed for in-company trainers, teachers, and trainees. The training supports businesses as they respond quickly to consumer demands, providing modern vocational careers that contribute towards maintaining competitiveness in the sector.

- Start date: 04/2016
  End date: 06/2019

- Type of implementing institution:
  Governmental organization/Private sector/
  Federations and chamber of commerce and industry

- Target group:
  In-company trainers, teachers, and trainees in the field of transportation and logistics

Education 2030

Description of activities

Pro DEENLA's activities focus on the design, testing and dissemination of sustainability-focused learning tasks for in-company training in the transportation and logistics sector. Learning modules promote skills for sustainable vocational action for students, teachers, and in-company training personnel.

Added value

What current challenges does your initiative address?

Environmentally friendly and efficient transport and logistics networks are a prerequisite for sustainable and future-oriented economic activity. Changing consumer demands, social requirements, and technological change present a dynamic and rapidly evolving landscape for commerce and businesses to navigate. In order to work and thrive in this new landscape, private sector companies must anticipate new trends, discover new methods of working, and proactively respond to societal demands. Pro DEENLA addresses these opportunities by improving in-company training in the transportation and logistics sector to support businesses in Europe and beyond.

Why is this initiative a success?

The developed learning modules address specific questions for the future sustainability of transportation and logistics sector, including: how can customer needs best be met? How should products be brought to the market? Whose production consumes fewest resources and complies with societal standards? How will products reach their destination via the most energy-efficient means of transport? Pro DEENLA fosters sustainability in professional training via continuous, in-company vocational education and training solutions.

What is the added value of this example?

The initiative contributes to the design of environmentally friendly transport and logistics networks, and could influence future-oriented expansion and reconstruction of road, rail and water networks. Pro DEENLA promotes competencies for sustainable vocational action in this key sector.

Impact on curricula

What implications does this example have for current or future curricula?

The implementation project defined, tested and revised 27 learning tasks that have been published and cover the following learning modules:

1. Sustainable development
2. CO_2 and water footprint
3. Combined transportation
4. Sustainability-oriented (customer) requirements
5. EU reporting requirements
6. Dealing with contradictions
7. Energy saving and energy efficiency
8. Resource reflection
9. Corporate Social Responsibility
10. Digitalised sustainable management

The 27 learning tasks can be applied as modular or additional qualifications added to existing curricula, or could be taught in the field of continuing VET and lifelong learning.

How does this example impact TVET systems?

This pilot initiative has impact on the local level for respective companies and TVET schools. If implemented across the whole transportation and logistics sectors, the impact will be national, and eventually system-wide.

How does this example respond to industry and social demands?

Societal demands increasingly focus on reducing carbon emissions and promoting green and sustainable solutions in all aspects of our lives. The transportation and logistics sector is no exception to this. Pro DEENLA responds to these social demands and provides a way for industry to address their corporate social responsibilities. Industry demands

for improved efficiencies and sustainable best practices are included within the developed learning modules.

Transferability

Which components of this practice may have practical value to other UNEVOC Centres/TVET institutions?

Most of the developed learning modules are in German, with only the first learning module on sustainable development translated into English so far. Further learning modules relevant for the UNEVOC Centres will be translated in 2020, and this will enable components to be adapted to other countries' contexts with minimal effort.

What challenges do you see if transferred to another context?

Pro DEENLA reflects the current situation in Germany. The requirements for companies and TVET schools in the field of transportation and logistics should be reflected in any country considering the use of Pro DEENLA learning modules.

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- For more information about this practice:

  Learning modules in English:
  Version for in-company trainers and teachers
  Version for trainees and students

  Interview with Mr Harald Hantke, the author of the modules: www.bibb.de/govet/en/126086.php
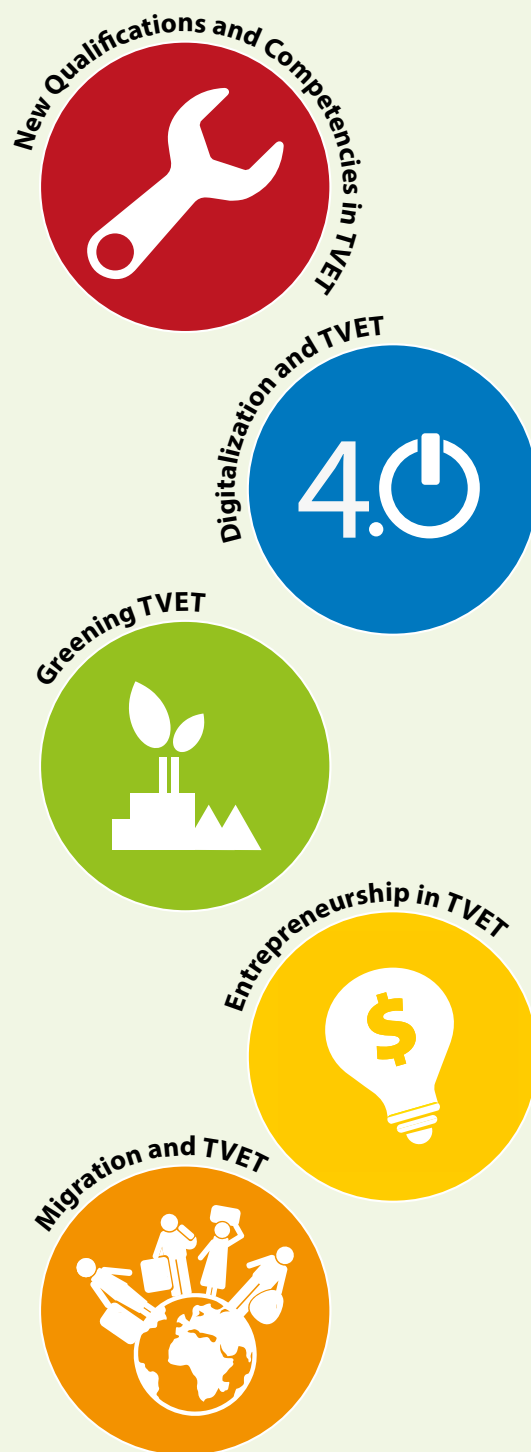
  https://www.foraus.de/de/foraus_111034.php and https://www.bibb.de/dokumente/pdf/BBNE15-19_ Abschlussbericht_Pro-DEENLA.pdf (German only)
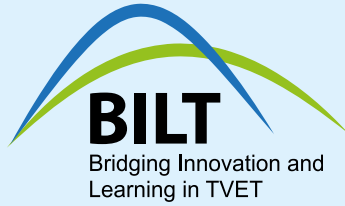
- Implementing institutions:
  Leuphana University, Steinbeis Innovation Center Logistics and Sustainability, BIBB, 15 companies from the transport and logistic sector, 4 Federations from the transport and logistic sector, and Chamber of Commerce and Industry Heilbronn-Franken

Part of the BILT project involves collecting Innovation and Learning Practices* that address systemic challenges within the five work streams of the project, with the purpose to understand what elements lead to their success and can be transferrable to other contexts.

Access more BILT Innovation and Learning practices in the thematic areas of:

New Qualifications and Competencies in TVET

Digitalization and TVET

4.0

Greening TVET

Entrepreneurship in TVET

Migration and TVET

BILT
Bridging Innovation and
Learning in TVET

The Bridging Innovation and Learning in TVET (BILT) project provides TVET stakeholders with a platform for exchange and supports them to address current challenges in TVET systems, which arise due to technological, social, environmental, and workplace changes.

Within BILT, the overarching thematic area is New Qualifications and Competencies in TVET, which is supported by four work streams:

- Digitalization and TVET,

- Greening TVET,

- Entrepreneurship in TVET, and

- Migration and TVET.

Through regular knowledge exchange, thematic project activities, and expert working groups, BILT offers opportunities for collaboration between UNEVOC Centres and TVET stakeholders in Europe, and a platform for bridging of innovation and learning between European UNEVOC Centers and TVET stakeholders in the Asia-Pacific and Africa regions.

The results of ongoing activities are accessible on BILT's web page and will be disseminated during a BILT Learning Forum.

The BILT project is carried out in collaboration with UNEVOC Network members, coordinated by UNESCO-UNEVOC with support of the German Federal Institute for Vocational Education and Training (BIBB), and sponsored by the German Federal Ministry of Education and Research (BMBF).

For more information, please visit www.unevoc.unesco.org/bilt
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