BUS Qualitrain – Final Results

EU Exchange Meeting, Athens, December 6th & 7th 2016
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Project Overview

- BUILD UP Skills QUALITRAIN aims at the conception and implementation of large-scale qualification and training schemes as well as accompanying measures which ensure a sustainable system of lifelong qualification of blue-collar workers in the building sector.

- Based on 6 major working packages

- Duration: 32 months (Nov. 2013 – June 2016)
Main Objectives

- early recognition of new skills needed in the building sector
  - systematic analysis of technological development
  - update training schemes
- foster systemic thinking and interfaces between trades
  - train the trainer
  - cross craft training for workers
- give impulse to invest in lifelong learning
  - brochure for sme on the necessity to support lifelong learning
  - enable them to find and finance CVET programmes
- create a helpdesk
  - lifelong learning in the craft sector
AGENDA

1. Overview & Objectives
2. Training methods & materials
3. Deliverables and outcomes
4. Marketing and outreach
5. Performance indicators
Train the Trainer I

1 day training on cross craft understanding

- slide show with expert on int. energy
- case studies from building sector
- group discussions on qualification
- course material

pilot
- 49 participants
- positive evaluation
Train the Trainer II

- Introduction
- House as a system
- Interfaces between crafts
- Cross craft Communication
- Links and checklists

- permanently published on foraus.de – central website on CVET in Germany
- 500 downloads so far
Cross Craft Training

Modul 1: House as a system (16 h)
Modul 2: Quality (8h)
Modul 3: Construction work on new and existing buildings (16h)
Modul 4: Facade engineering (16h)
Modul 5: Roof (16h)
Modul 6: Internal insulation (16h)

240 h
IE-specialist
CVET „Meister“
2–3.5 years VET

cross craft training
Support Structure for SME

- high proportion of SMEs in Germany.
- average size 5 employees (craft sector)
- low participation rate in lifelong learning
- 2 target groups: consultants / employers and employees

- support an understanding of the necessity to invest into CVET
- create a one stop shop for craftpersons
- support transparency on the CVET market by making trainings comparable

www.karriereportal-handwerk.de
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Deliverables and Outcomes

- Implemented system of early recognition of qualification needs
  - HPI and ZWH: early recognition becoming a permanent part of the organizations’ strategies starting 2017

- Development of a training course as well as pilot testing (20 participants) and adaption during the project.
  - 38 participants, but not all parts of the training were accepted equally so that they had to be revised
  - Chamber Hildesheim did pilot testing
  - Further testing and development with more chambers in 2017

- Train-the-Trainer seminar: One transferable seminar triggered during the action with 60 people and additional content as e-learning module
  - Seminar with 49 participants and a good evaluation
  - 500 downloads of e-learning programme
  - Both permanently available on www.foraus.de
Deliverables and Outcomes

- Increasing the participation in CVET programmes
  - Manual for SME to foster investments into lifelong learning
  - Creating transparency of CVET programmes
    - Database with courses of 12 out of 53 chambers online and 12 in progress plus 10 additional CVET centres
- Development of recommendations for the CVET consulting structures in the building sector
  - Recommendations have been developed
  - Efficiency consultants have been installed to support progress within the field of energy efficiency including the task of “supporting the development, consulting and sale of CVET” within this field
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Marketing and outreach

- National Platform
  - 53 institutional members
  - progress reports
  - 3 meetings
- Craft Sector, information via
  - Circular letters to 263 experts
  - Press (work in progress)
  - Internet:
    - Bauinitiative.de
    - Partner Website
    - Video Statement (work in progress)
- Scientific community
  - Circular letters to 263 experts
  - Newsletters
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## Performance Indicators I

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<th>Performance Indicators</th>
<th>Target within the action duration:</th>
<th>Target by 2020:</th>
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| **Number of training courses triggered by the action**      | CVET Programmes: 1  
Train-the-Trainer-Seminar: 1                                                                                     | CVET Programme: 100  
Train-the-Trainer-Seminar: 48                                                   |
| **Number of people that will be trained**                   | CVET Programmes: 20  
realised 38  
Train-the-Trainer-Seminar: 60, realised 49                                                                       | CVET Programme: 1,600 + 400  
Train-the-Trainer-Seminar: 2,400                                                 |
| **Number of hours taught in the frame of the courses triggered** | CVET Programmes: 200  
realised 88  
Train-the-Trainer-Seminar: 10 (+e-learning), realised 6.5h (+3h e-learning)                         | CVET Programme: 20,000  
realised 8.800  
Train-the-Trainer-Seminar: 480  
realised 312 (+e-learning=456)                                                    |
| **Estimated specific cost to qualify each trainee**         | CVET Programmes: 3,986.61€ (38 participants)  
Train-the-Trainer-Seminar: 1,846.69€ (49 participants)                                                              | CVET Programmes: 75.74€ *)  
Train-the-Trainer-Seminar: 37.70€                                                 |

*) only project’s specific costs considered
The National Roadmap shows that primary energy requirement has been around 238 kWh/sqm

Savings are 125 kWh/sqm and 10t CO2 equivalent per construction project on average

Highly skilled workers contribute to energy efficiency and greenhouse gases:

- Save 150kWh/sqm per construction project instead of 125kWh/sqm
- Save 15 tons of CO2 equivalent instead of 10 t CO2e
- An average project has 100 sqm = 0.215 toe plus 5 tons CO2e per project
- Each worker contributes to 3 projects a year = 0.645 toe plus 15 t CO2e per year
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<td>Renewable Energy production triggered</td>
<td>0 Toe/year</td>
<td>0 Toe</td>
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<td>Primary energy savings compared to projections</td>
<td>12.9 Toe/year (0.645 * 20 participants) Realized: 24.51</td>
<td>1,032 Toe/year (1,600 participants)</td>
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<td>Reduction of greenhouse gas emissions</td>
<td>300 t CO$_2$e/year (15 t CO$_2$e * 20 participants) Realized: 570 t CO$_2$e/year (15 t CO$_2$e * 38 participants)</td>
<td>24,000 t CO$_2$e (15 CO$_2$e * 1,600)</td>
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<td>Suitability of created system of early recognition</td>
<td>evaluation by experts: &gt;75% regard system as suitable or at least rather suitable</td>
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