





Co-funded by the Intelligent Energy Europe Programme of the European Union

# **BUS Qualitrain - Final Results**

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







1	Overview & Objectives
2	Training methods & materials
3	Deliverables and outcomes
4	Marketing and outreach
5	Performance indicators



#### **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



3. Cross-trade CVET

program

6. CVET consulting/

**CVET** database for

the building sector

1. Management

4. Train-the-Trainer

seminar

8. EU-Exchange

2. System of early

recognition of future

qualification needs

Development o

support structures

for lifelong

qualification

- 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
  - Ifelong learning in the craft sector



7. Communication





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### Train the Trainer I

BUILD UP SKILLS ENERGY TRAINING FOR BUILDERS EXTRALVERBAND DES DEUTSCHEN HANDWERKS

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







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#### Train the Trainer II





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

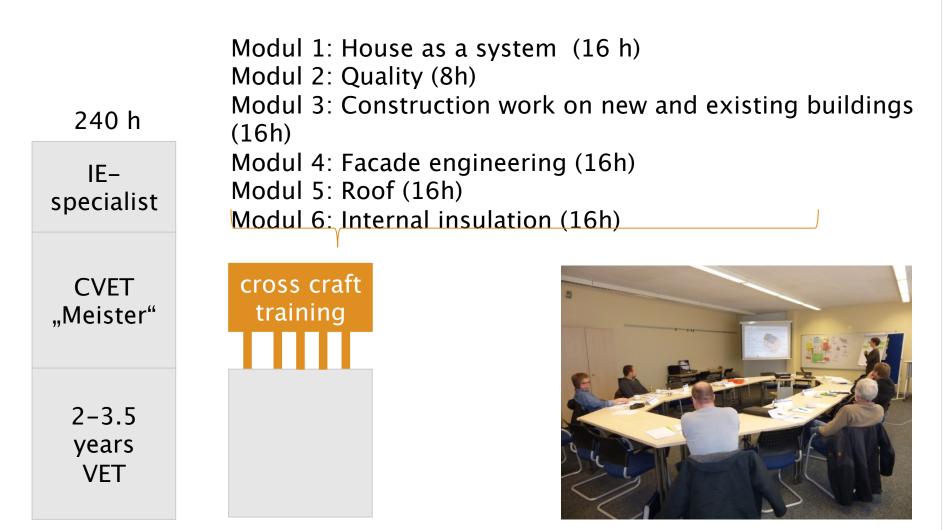
- permanently published on foraus.de central website on CVET in Germany
- 500 downloads so far



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### **Cross Craft Training**







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## Support Structure for SME

- high proportion of sme in Germany.
- average size 5 employees (craft sector)
- Iow 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







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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





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





BUILD UP SKILLS ENERGY TRAINING FOR BUILDERS

> ZENTRALVERBAND DES DEUTSCHEN HANDWERKS





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## Performance Indicators I



Performance Indicators	Target within the action duration:	Target by 2020:
Number of training courses triggered by the action	5	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
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### Performance Indicators II



- 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



### Performance Indicators II



Performance Indicat	tors Target within the action duration:	Target by 2020:
Renewable Energy production triggered	0 Toe/year	0 Тое
Primary energy saving compared to projecti	gs 12.9 Toe/year ons (0.645 * 20 participants) Realized: 24.51	1,032 Toe/year (1,600 participants)
Reduction of greenhouse gas emissions	300 t CO <sub>2</sub> e/year (15 t CO <sub>2</sub> e * 20 participants) Realized: 570 t CO <sub>2</sub> e/year (15 t CO <sub>2</sub> e * 38 participants)	24,000 t CO <sub>2</sub> e (15 CO <sub>2</sub> e * 1,600)
•	valuation by experts: >75% regard system as suitable or at east rather suitable	



#### Contact



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