



## 05 - COURSES TRAIN THE TRAINER FOR THE PROFESSION “BRICKLAYER”

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**SLOVAK AUSTRIAN GERMAN ALLIANCE  
VOCATIONAL EDUCATION AND TRAINING**

## 05 - COURSES TRAIN THE TRAINER FOR THE PROFESSION "BRICKLAYER"

**Project:** SAGA FOR VET

**Activity:** Train the Trainer Week

**When?:** 02 – 06 October 2016

**Where?:** Das Europäische Bildungswerk für Beruf und Gesellschaft

Hegelstraße 2, 39104 Magdeburg



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# PROGRAM

## **Framework program on "Train the Trainer" within the framework of the SAGA for VET project (the intellectual output O2 – O7)**

The goal of this program is to provide comprehensive knowledge regarding theoretical and practical part of the education to the participants with respect to the selected program/profession. On the basis of the information received, the participants should be able to understand the analyses of the professions developed by the partners of the BBRZ-Group and EBG and also should be active in the development of various educational programs. (accreditation) in Slovakia. In addition, the participants of the program "Train the Trainer" are able to independently conduct training programs, and to pass on the acquired information to attendees of accredited educational programs in Slovakia.

# PROGRAM

The duration of the course:

The course will take place during 5 working days in duration of 8 hours.

The main points:

1. Professional specialisation for individual training (practice) and outline plans for the framework curricula (theory) and introduction to the literature and other materials used in teaching (educational documents, timeline and content sequence of practical and theoretical instruction, an exemplary presentation of teaching materials)
2. Health and safety in the field of vocational training (presentation of documents, instructions for the safety and protection in the work in the case of various professional associations – according to the focus of vocational education)
3. Organization of practical training/seminars (presentation and description of the didactic-methodological links, e. g. Visit to the training workshops)
4. Visit to partner companies for practical training and obtaining information on the practical requirements for new technologies and software requirements.
5. Final evaluation workshop
6. Didactic-methodological foundations of education (presentation and specialist discussion)
7. Preparation for the exam and progress of the exam (based on the current requirements of the decree to the individual professions)
8. "Für Ausbildereignungskurse" models – the appropriateness of the training courses for the target group? (presentation and introduction to the AZAV courses of the EBG project partner)
9. Quality assurance of vocational education (presentation and discussion)
10. Final workshop and the prospect of the future opportunities

# PROGRAM

| FIRST DAY  | SECOND DAY   | THIRD DAY  | FORTH DAY   | FIFTH DAY  |
|--|--|--|---|--|
| Technical specification of the educational framework plans (practice) and framework planes (theory) and presentation of the literature and other teaching materials<br>6 hours | Organization of practical training in training centres (theoretical discussions with the presentation or a visit to the training workshops)<br>(3 hours)               | Didactic-methodological foundations of education (presentation and specialist discussion)<br>(8 hours) | Preparation and realization of the examination<br>(3 hours) | Quality assurance of vocational education (presentation and discussion)<br>(6 hours) |
| Health and safety in the field of vocational education<br>(2 hours)  | Visit to partner companies for practical training and obtaining information on the practical requirements for new technologies and software requirements.<br>(3 hours) |  | "für Ausbildereignungskurse"<br>models<br>(5 hours)         | Final workshop and the prospect of the future opportunities<br>(2 hours)             |
|  | Final evaluation workshop<br>(2 hours)   |  |   |  |

# EBG

Europäisches Bildungswerk  
für Beruf und Gesellschaft 

The European Association for Vocational and Social Education (Das Europäische Bildungswerk für Beruf und Gesellschaft) is a competent partner for education and training. Since 1990 we are active in many locations in Germany and Europe.

- **Competence for education and training**

The European Association for Vocational and Social Education (Das Europäische Bildungswerk für Beruf und Gesellschaft) was founded in 1990 as free and non-profit educational company, which provides both vocational and civic engagement in society. Today, the EBG is a powerful and innovative educational company with 36 educational centers in the Federal Republic of Germany and worldwide activities. The EBG is active as an educator and developer in many different sectors and professions. More than 350 full-time lecturers, trainers, specialists and managers as well as over a thousand honorary staff work on the basis of international quality standards (DIN EN ISO 9001: 2008) and according to the mission statement of the EBG.

## **International character**

The processing of projects with international participation, the membership in the European Association of Professional Education Institutions (EVBB) and own companies, educational centers and representative offices in countries of the European Union, Slovak Republic, China, Vietnam and Russia form the basis for international activities.

## **Activity orientation**

In particular, active teaching methods, which increase the independence in the process of working and learning of the participants, like laboratory and experimental teaching, working with models, project- and problem-oriented individual and group work, course and project method, work directly in professional practice, complex works, excursions and internships are the focus of activity-oriented teaching and training didactics.

## **Proximity to other businesses**

The aim of all professional qualifications is to create and maintain employability. This requires close cooperation with companies to align the qualifications according to their needs. In addition to the latest know-how, traditional virtues, such as punctuality, reliability, technological discipline, but also the development of respect for work and love for the profession, are the focus of the training.

# MAIN DIDACTIC CONCEPT

Direct link between:

- Economic requirements (regional, national, international)
- pedagogical and main didactic concept
- learning location
- qualification of the teachers (ultimately the success of the project is dependent on the qualification of the teachers)



# BASIC DIDACTIC SYSTEMS OF VOCATIONAL TRAINING

- Didactic metasystems
- Didactic macrosystems
- Didactic microsystems

# LEARNING FIELDS

**Learning field 1: Setting up a construction site**

**Learning field 2: Opening up and founding a construction site**

**Learning field 3: Building of monocoque structure**

**Learning field 4: Advertisement and promotion of sales**

**Learning field 5: Production of wooden structures**

**Learning field 6: Coating and covering of building parts**

**Learning field 7: Bricklaying of single-leaf wall**

**Learning field 8: Bricklaying of double-leaf wall**

# LEARNING FIELDS

**Learning field 9: Production of solid-ceiling**

**Learning field 10: Wall buffing**

**Learning field 11: Drywall installation**

**Learning field 12: Screed production**

**Learning field 13: Straight staircase production**

**Learning field 14: Covering of opening with an arch**

**Learning field 15: Natural stone wall construction**

**Learning field 16: Bricklaying of special building components**

**Learning field 17: Restoration and renovation of building component**

# ABSOLVENT PROFILE

**The profile of the profession "High-rise construction worker and bricklayer" is described in the training profile. It includes at least the following skills and knowledge:**

1. Vocational education/labor and collective bargaining law
2. Structure and organization of the training company,
3. Health and safety at work,
4. Environmental protection,
5. Order acceptance, service recording, work plan and schedule,
6. Equipping, securing and clearing of construction sites,
7. Checking, storing and selection of construction and construction materials
8. Reading and application of drawings, production of sketches,
9. Carrying out measurements,
10. Processing of wood and manufacturing of wooden joints,
11. Manufacturing of building parts of concrete and reinforced concrete
12. Manufacturing of stone building
13. Installation of insulation materials for heat, cold, sound and fire protection,
14. Buff construction,
15. Screed construction,
16. Fixing and laying of floor tiles and slabs
17. Production of drywall components
18. Manufacture of excavations pits and ditches, installation and water control,
19. Construction of Manufacture of transport routes,
20. Laying and connecting of supply and disposal lines
21. Quality assurance measures and reporting

# INTERMEDIATE EXAMINATION

- An intermediate examination is to be carried out to determine the level of education.
- If the vocational training ratio includes training for the first stage in accordance with § 1 (1) (a), the intermediate examination shall take place at the end of the first year of training.
- The intermediate examination shall cover the skills, knowledge and abilities listed in Annex 1 Section I under the order numbers 1 to 20 for the first year of training, as well as the subject matters to be taught in vocational school in accordance with the framework curriculum, as far as it is essential for vocational training.

# INTERMEDIATE EXAMINATION

- The candidate should carry out a practical task in a maximum of six hours. In this process, the candidates have to show that they are able to plan work steps, determine building materials and tools, safeguard the workplace, observe health protection and justify the performance of the task verbally or in writing. In particular, the following areas may be considered:
  1. Construction of single-layer wall plaster,
  2. Construction of masonry up to 24 centimeters wall thickness with right angled intersecting wall.
  3. Construction of board structure for a rectangular reinforced concrete part as a foundation or support including support and securing against displacement,
  4. Production of a reinforcing cage that is rectangular in cross-section.
  
- If the vocational training ratio includes training for the first and second level in accordance with § 1 (1) (a) as well as (2) (1), the intermediate examination shall take place at the end of the second year of training.

# FINAL EXAM

- The final examination shall cover the skills, knowledge and abilities listed in Annex 1, as well as the subject matters to be taught in vocational school in accordance with the framework curriculum, as far as it is essential for vocational training.
  
- The candidate should carry out a practical task in a maximum of eight hours. The candidate has to demonstrate that he can independently determine the work steps, control the work results and take measures to secure safety and health at work and environmental protection. In particular, the following areas may be considered in the case of practical task:
  - Focus on bricklaying
    - a) a) Production of masonry from
    - b) small- or medium-sized stones in different
    - c) types of masonry bonds
    - d) b) construction of a masonry structure with
    - e) recess and opening and overlap or
    - f) c) construction of brickwork body
    - g) in various types of masonry bonds

# FINAL EXAM

The candidate is to be examined in the written part of the examination in the examination areas of focused tasks, structures in the building construction as well as economic and social studies. In the examination areas of focused tasks and structures in building construction, the candidate has to show that he can solve practical cases by combining work-organization, technological, mathematical and graphic content. Measures for safety and health protection at work, environmental protection and quality assurance measures are to be included. In particular, the following areas may be considered:

in examination area “Focused tasks”

➤ Focus on bricklaying:

- a) Masonry mortar
- b) Masonry bonds for brickworks
- c) Brickworks for various building structures, faced brickwork
- d) Curbs, infills and shafts
- e) Openings and overlaps





# FINAL EXAM

The examination has been passed if at least sufficient performance has been achieved in the practical and written part of the examination as well as in the written part of the examination in at least two areas of examination. If the examinations are graded "insufficient" in one examination area, the examination is not passed.

# HEALTH AND SAFETY AT WORK

## Why health and safety at work?

85% of all accidents are caused by **human error**.

Habituation effect leads to underestimation of the risks.

- Legal obligation of the company

(Act on Occupational Safety and Health §§3, 4 )

- Legal security for the company

(criminal and civil law consequences)

# WHY HEALTH AND SAFETY AT WORK?

Organization and implementation of occupational health and safety in the area of responsibility, e. g.

- Risk assessments
- Instruction and tuition of employees
- Observation and implementation of regulations for young people, child-bearing women, expectant and nursing mothers
- Observation and implementation of regulations for the handling of hazardous substances
- Documentation of implementation
- Control of implementation

# TASKS AND RESPONSIBILITIES OF THE EMPLOYEES

## The following rules apply to all:

- Ensure safety and health at work for yourself and third persons
- Operational guidelines and instruction contents
- Observe operating instructions

## The following rules apply to all:

### Proper use of

- Work equipment
- Personal protective equipment
- Protective devices

### Employers promote

- Report hazards and deficiencies
- Report near-accidents
- Propose ideas and suggestions to health and safety at work
- Support measures for occupational health and safety