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BOOSTING KNOWLEDGE OF ADHESIVE BONDING PERSONNEL



Booklet of Quality Assurance Recommendation for the Implementation of Adhesive Bonding Training in EU Countries



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01

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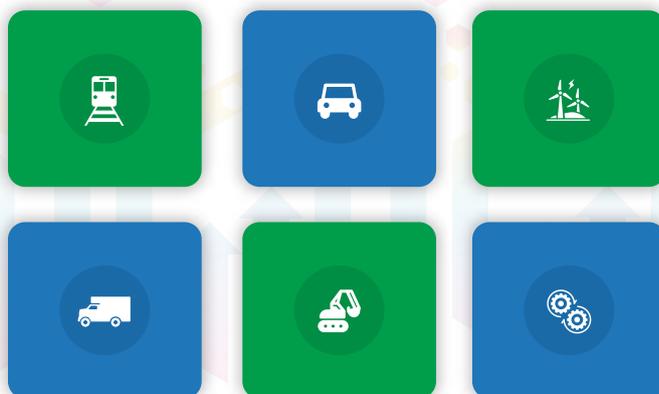
Project Background

What we aim at?

The **KNOWBOND** project aims to promote **Vocational Education and Training (VET)** excellence in the Adhesive Bonding sector by updating the existing European Adhesive Bonder (EAB) qualification and thus enabling the certification of **individual skills** related to specific professional activities.

What is Adhesive Bonding?

Adhesive bonding is a vital component of contemporary **manufacturing methods** thanks to its adaptability and ability to reliably join a wide **range of materials**. Adhesive bonding is increasingly being used in industrial applications in many industries, such as **automotive, railway, aeronautics, marine, energy, packaging and electronics**.



Specific European Adhesive Bonder Training (**SEABT Qualifications**)

The **SEABT qualification** has been designed following a modular approach in accordance with the harmonized existing **EFW Qualification System** for adhesive bonding. This approach allows the progression between qualifications, which is possible since there are common **Competence Units (CUs)** and common topics addressed by some CUs among the SEABT qualification and the **EAB Qualification**. The KNOWBOND project, in addition to creating this new qualification, in line with the European qualifications and recognition systems, has developed **new digital learning and assessment tools**.

Specific European Adhesive Bonder Training (Programme)

The **SEABT qualification** consists of a compulsory competence unit (**CU1**), which is a **mandatory part** of every SEABT qualification which provides a **basic understanding** of adhesive bonding **principles and topics**.

The competence units **CU2** and **CU3** are subdivided in specific subjects which are selectable according to need and client requirement or **specific target applications**.

In case a **company/industrial** application requires knowledge which is not part of the EAB curriculum an optional competence unit 4 was created.

The training competence units of the SEABT qualification are:



What will participants learn during the training course?

Training Programme:

- SEABT qualification (Independent level - EQF 4).

Duration:

- Recommended for 24 hours with expected workload of 48 hours.

Knowledge:

- Basic understanding of adhesive bonding technology principles and concepts.

Skills:

- Be able to carry out adhesive bonding technology work for a limited and specific scope of adhesive bonding activities/processes.

Autonomy & Responsibility:

- Work under supervision and work instructions in a competent manner, giving feedback in case of irregularities.

Conditions to start the training course:

 Minimum age of **16 years**.

 Basic skills in **material processing** (recommended)

 Proficient in the **language** in which the course is taught.



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Conditions for the implementation
of training courses



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Conditions for the implementation of training courses

Conditions and steps to boost the use of **European adhesive bonding qualifications** at national level in countries not covered by the project, for **vocational education and training (VET)** systems and companies to **effectively implement** the SEABT qualification.



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Conditions and steps



SEABT Curriculum



Dissemination Actions



Capacitation of VET Providers and Trainers



Innovative Training Methodologies and Tools



Integration of the learning content into Online Platforms



Harmonized Assessment



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Quality Assurance Recommendations
for the implementation of the SEABT
in Europe



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Quality Assurance Recommendations for the implementation of the SEABT in Europe

KNOWBOND results are fully aligned with the [New Skills Agenda](#), as the modularization of the [EAB level course](#), the use of **digital** and more **flexible technologies** and the development of personalized learning paths facilitate trainees to **access** to the qualification level and **promote** the **continuous education** of adhesive bonding professionals.

In terms of training implementation KNOWBOND project followed European **quality assurance best practices** underpinned by [EQAVET](#) and [EFW Quality Assurance System](#).

This **booklet** is **directed to** policy makers, VET providers, Higher Education Institutions or EWF European network composed by **Authorized Nominated Bodies** and **Authorized Training Bodies**, aiming to provide quality assurance recommendations for the **implementation** of the **SEABT programme** in EU countries. This guideline recommendation was developed covering the **principles** and **required** conditions supporting the recognition and adoption of the **developed curricula** for the SEABT.



Objectives



Impact



Activities



Results



Six recommendations were defined to ensure the implementation of SEABT training in other countries following **Quality Assurance Principles**, which in an European qualification system are linked with the establishment of **Guidelines (for a transnational curricula), Harmonized Assessment, Quality Assurance System for the implementation & EQAVET indicators**.

**SEABT CURRICULA
EXPRESSED IN LEARNING
OUTCOMES**

A harmonized training guideline, defined in terms of knowledge, skills, autonomy and responsibility used to support the implementation of training at European level. The training guidelines also include: requirements for training attendance; requirements for trainers and rules for evaluation.

**ACCREDITATION AND
COMPLIANCE WITH
INDUSTRIAL STANDARDS**

SEABT course meets relevant national and international industrial standards, with a clear process for accreditation and maintaining standards.

**SEABT CURRICULA
EXPRESSED IN LEARNING
OUTCOMES**

Use of common tools and specific procedures for the assessment, that are followed by all organizations, to guarantee the depth and scope of assessment is adequate to the defined learning outcomes.

**CONTINUOUS
IMPROVEMENT/UPDATE
OF SEABT COURSE**

Implement procedures for continuous improvement, which include: review the curriculum validity every 3 years; review of the learning resources; periodic students & teachers surveys; revision of the questions performance used in the harmonized assessment every year; regular auditing activities to the ANBs and ATBs.

**QUALITY CONTROLE FOR
THE ORGANISATIONS
CONDUCTING TRAINING
AND ASSESSMENT**

Methods and rules for the Approval of ANBs (responsible for approval and supervision of training centres, qualification evaluation, development and implementation and awarding of diplomas) and for ATBs (responsible for delivering training in compliance with Qualification guidelines and specific rules).

**PERFORMANCE
INDICATORS**

Define key performance indicators (KPIs) in alignment with EQAVET to evaluate, monitor and improve the programme effectiveness and participants satisfaction.

These points serve as **foundation for developing** a robust quality assurance framework for the SEABT course.



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Project Conclusions



PROJECT CONCLUSIONS

Establishing a unified system:

Establishing a unified system for recognizing qualifications across European countries can bring benefits to various stakeholders: industry, education policy makers, vocational education and training (VET) providers, and trainees.

These advantages align with one of the fundamental principles of the European Union: the mobility of people.

Adhesive training programmes:

The execution and acknowledgment of adhesive training programmes, such as the SEABT, at the European level are founded on EU policies and tools, which, fundamentally, serve as pivotal elements in improving the transparency, comparability, and transferability of individuals' qualifications.



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