

Dedicated to stimulate demand for sustainable energy skills in the construction sector

www.busleague.eu

Report: D4.2 Established Energy Skills Quality Repository

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Date: 16-9-2022

Partners involved: LIT, AVE, BCC, IVE, AEA



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CHANGE RECORDS

Version	Date	Author	Changes	
Version 0.1	4-11-2021	Jan Cromwijk	Deliverable Outline	
Version 0.2	2-3-2022	Layla van der Schaaf (ISSO)	First draft of D4.2	
Version 0.3	2-3-2022	Jan Cromwijk	Review of the first Draft	
Version 0.4	20-4-2022	Jan Cromwijk	Further elaboration	
Version 0.5	15-6-2022	Jan Cromwijk	Added EU and NL implementation	
Version 0.6	12-9-2022	Manuel Esteban	Added French input for final draft	
Version I	12-9-2022	Jan Cromwijk	Final quality check Finalised deliverable	

SUMMARY

Each country in BUSLeague provides learning content and access to learning content for construction workers, specialist workers, professionals, DIY homebuilders and members of the supply chain. The BUILD UP Skills advisor-app content catalogue functions and the possibility to link content with relevant tasks and subtasks will be used to make the repository easily accessible. This also opens the way for issuing digital experience points, recognitions or skill badges. Requirements for learning analytics defined in BUSLeague will be implemented in order to evaluate the usefulness of the repository.

I Introduction to the BUILD UP Skills advisor-app

In this chapter first an introduction is given on the BUS-app functionality for implementation of content repositories

1.1 Introduction to BUS-app content repository functionality

The BUS-app content repository has multiple functionalities. These will be discussed in the following paragraphs.

I.I.I How to map content in the BUS-app content repository

The content is mapped in the following sequence:

- 1. Create a specialism you want to recognize
- 2. Create a profession you want to recognize
- 3. Create a sector the profession is linked to

This is further described in the BUS-app manual in chapter 9.

1.1.2 How to find content with the BUS-app

Participants have two options to search for content:

I. Based on a specific interest

The participant can use the search bar if he/she knows a concrete topic about which he/she wants to upskill.

This function can be found at the top of the start screen.

2. Based on profile

The second option is to search for topics that are related to the specific profile of the learner. Relevant content is recommended based on the learners' sector and profession.

This function can be found at the start screen.

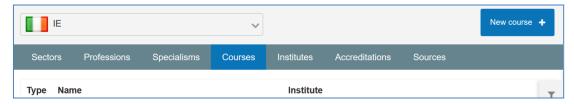




1.1.3 How to register the use of content in the BUS-app

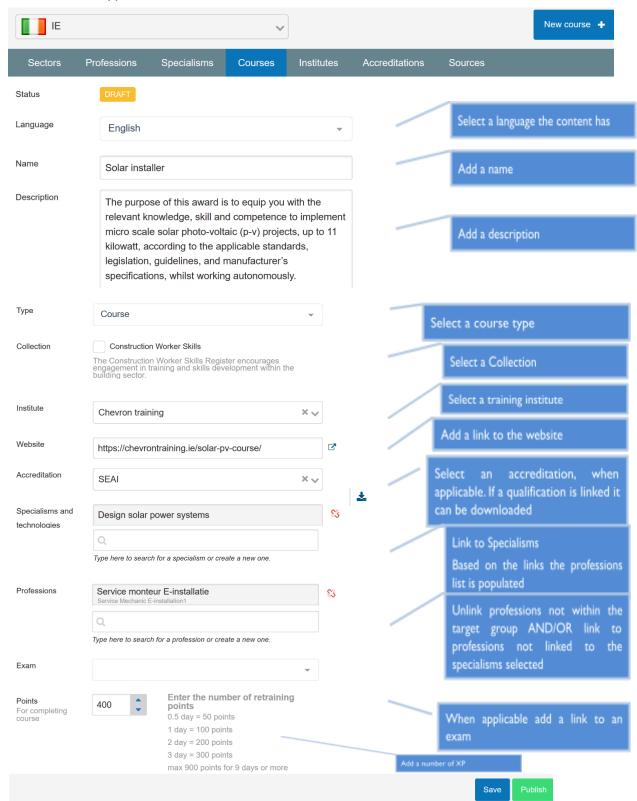
Learning institutes and organisations can upload content by selecting 'courses' at the top menu.

This is further described in the BUS-app manual in chapter 4.8.



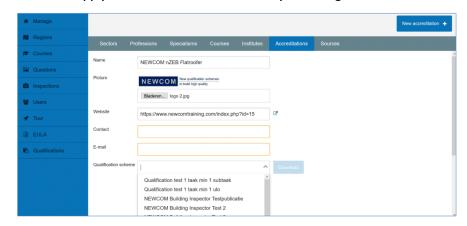
Next click on 'New course' to create a new course item.

Fill in the details needed. When a course is published by a course provider, then the region admin needs to approve

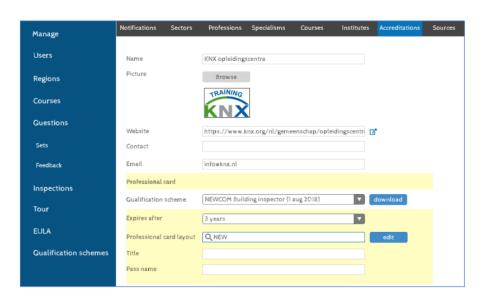


I.I.4 How to recognise persons with the BUS-app

In the BUS-app you can accredit the learner by selecting 'accreditations' in the top menu.

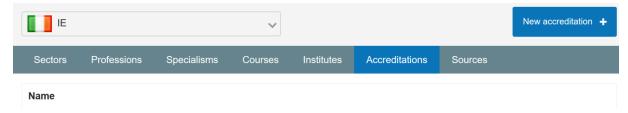


Next you can fill in the different information fields.



This is further described in the BUS-app manual in chapter 4.6.

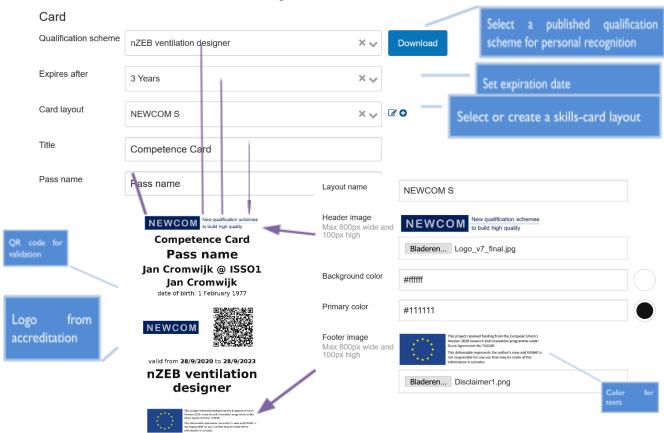
If accreditations or recognitions for courses or course providers are available, they can be added. An accreditation can be linked to a qualification by linking it to a published qualification. When linked to a published qualification scheme personal recognition cards can be issued.



Click on the button 'New accreditation +' and fill in the required fields.



When an accreditation is linked to a recognition a Skills-card can be added.



1.1.5 How to find recognised persons with the find your craftsman website

This is further described in the BUS-app manual in example 14

I. Find recognized persons

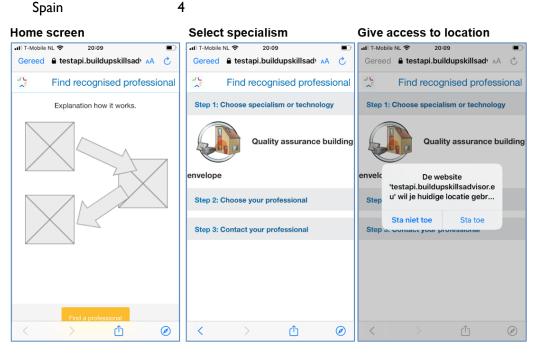
When all steps are done, you can find recognized persons on the mobile app available at: https://testapi.buildupskillsadvisor.eu/expertSearch/index/3?language=en

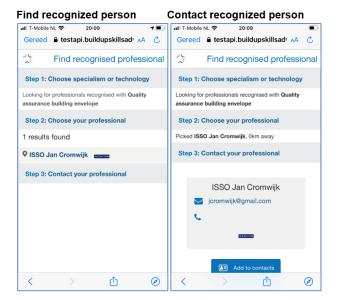
The region number of AT is 363197.

https://testapi.buildupskillsadvisor.eu/expertSearch/specialisms/363197?language=en

Other region numbers in the TEST environment are:

Ireland 314941
Slovakia 363342
Hungary 363354
The Netherlands I
Spain 4





2 Implemented content repositories in the BUS-app

In this chapter first an overview is given of the implemented content repositories and recognition in the BUS-app.

2.1 Content repository on EU-level

For required skill-levels the <u>skill-levels defined in the PROF/TRAC project</u> will be added to the professions in the EU-region. This will be done in Q3 or Q4 of 2022.

Also an update will be done on the upskilling supply in English available at EU level.

Furthermore all partners will indicate relevant courses available at the EU-level in English for use in national contexts. For example e-learnings available in English in the Construction Blueprint project Online Courses - Construction Blueprint for line MOOCs and at Course InformationBIMzeED at TUS.

2.2 Content repository on AT-level

In Austria, BUSLeague makes use of the existing BUILD UP Skills advisor-app implementation. Actions specifically undertaken in Austria are:

- I. Updating the course catalogue together with the education provider (Energy Agency Styria) inline with the new developed courses for energy advisors.
- 2. Promoting the app to the trainees of the new developed and implemented courses in Austria to guarantee that the foreseen number of new registrations can be reached.
- 3. Further promotion of the app and exploring how the app could be used as a mutual recognition register for upskilling in Austria.

2.3 Content repository on BG-level

In Bulgaria, BUSLeague will make use of the structure and content of the BUILD UP Skills advisor-app by:

- I. Using the course catalogue to support training activities for various construction sector professions together with the Bulgarian Construction Chamber.
- 2. Presenting the app's functionalities to initiate, develop and endorse a system for continuous professional development
- 3. Integrate app's functionalities and content, especially as regards micro-learnings, in existing online learning tools
- 4. Explore opportunities to support personal and mutual recognition and to develop a skills register under the auspices of the Bulgarian Construction Chamber

2.4 Content repository on ES-level

Spain, in the framework of the PROF/TRAC project in 2018, supported the BUS-app in defining skills-levels and professions, as well as translating some content into Spanish. Currently in 2022-2023, BUSLeague will experiment with the BUS-app again to learn about new functionalities and explore opportunities to enrich the existing training ecosystem in Spain.

Actions specifically to be undertaken in BUSLeague are:

- I. Linking the BUS-app with the new e-learning contents developed for BAUHAUS employees in the implementation pilot in Spain.
- 2. Experiment with the live register of professionals.
- 3. Explore the integration of existing Moodle courses into the BUS-app.
- 4. Promote the BUS-app to key actors to learn from this experience and adapt it to the regional context.

2.5 Content repository on IE-level

In Ireland, BUSLeague makes use of the existing BUILD UP Skills advisor-app implementation. The app was originally developed in 2019 as part of the Sustainable Energy Authority of Ireland (SEAI)'s funded project, BUNRS with support from ISSO.

Actions specifically undertaken in BUSLeague are:

- Updating the catalogue of upskilling supply by reaching out again to education providers. This includes adding new courses focusing on both energy efficiency and circularity.
- 2. Promoting the app to public and private training providers though direct emails, phone calls and other projects the partners are involved in E.g. <u>DASBE</u>.
- 3. Promoting the app within the industry. This will be done through collaboration with DIY/Hardware stores, and professional representative bodies such as Engineers Ireland, the Royal Institute of Architects of Ireland, the Society of Chartered Surveyors of Ireland and the Construction Industry Federation. TUS works closely with VET providers and the app is a regular topic of conversation from the point of view of creating a pathway for learners particularly around micro credentials. The IGBC will also promote the app among its membership.
- 4. Testing the interactive tools and functionality available through the app (E.g. MCQs) to create a greater level of engagement.
- 5. Actively exploring how the app could be used as a live register of building professionals and construction workers who have upskilled in energy efficiency and circularity.
- 6. Encouragement through BUSLeague partners of the app's potential in the space of personal and mutual recognition through recognised micro credential capturing and storage.

2.6 Content repository on FR-level

In France, BUSleague creates an opportunity to implement the BUILD UP skills advisor-app in the energy efficiency building sector. This tool represents an improvement opportunity, but also a challenge. The sector faces constraints in terms of the motivation of the workforce and the academic path of the effective hired workers. Given this, the implementation of these kinds

of technologies requires, more than convincing the workers to use the app because of its advantages, to encourage the blue collars to actively use apps in their learning processes and for their profession. Following this statement, the strategy in the short term should focus on the divulgation, framed in the creation of a demand for professionals through the app, and in future steps, linking this demand with an active growing offer of certified workers using the app.

As so, the actions specifically undertaken in BUSLeague are:

- I. Divulgating the existence and functionalities of the app during the awareness interventions for the general public in the DIY stores. For this, it is proposed that, during the intervention at the DIY stores, the hosts invite the people to download the app on site. Detail: This seeks to create the demand from the customers as an incentive to use the app. Functionality target: Finding a recognised professional.
- 2. Promoting the app between the project managers and exposing to them the advantages for training and skill recognition profiting regional sector or labour policy meetings. For this, it is proposed to contact the labour market-related organisations (Employment houses, guilds, Skill operators) and ask them for spaces of 5 min in a clause or project evaluation meeting to present the app and its main utilities. This, addressing mainly to the worksite supervisors. As well, it would be useful to share publicity via mail and linkedIn about the app. Detail: This seeks to create the demand from the employers as an incentive to use the app. Functionality target: Content repository.
- 3. Presenting the app to the blue collars during the training interventions that will take place in the partner DIY stores and encouraging them to download it. <u>Detail:</u> This seeks to create the offer from the blue collars. <u>Functionality target:</u> Content repository and Finding a recognised professional.

2.7 Content repository on NL-level

In the Netherlands BUSLeague makes use of the existing BUILD UP Skills advisor-app implementation. Actions specifically undertaken in BUSLeague are:

- 1. Adding the BUSLeague qualification in order to provide proper linking of upskilling content with relevant learning goals and in some cases recognition schemes.
- 2. Updating the catalogue of upskilling supply by reaching out again to upskilling providers and signing cooperation agreements on that.
- 3. Experiment with the micro-learning facilities the BUS-app offers.
- 4. Experiment with other app's and websites delivering micro-learning services
- 5. Linking the BUS-app with new e-learning content specifically developed for the Dutch implementation pilots.
- As formal recognitions are stored in the Netherlands in a branche register (Centraal Register Techniek) we explore the way on how to add upskilling progress to this register.







This project has received funding from the European Union's h2020 framework programme for research and innovation under grant agreement no 892894. The information in this publication does not necessarily represent the view of the European Commission.

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