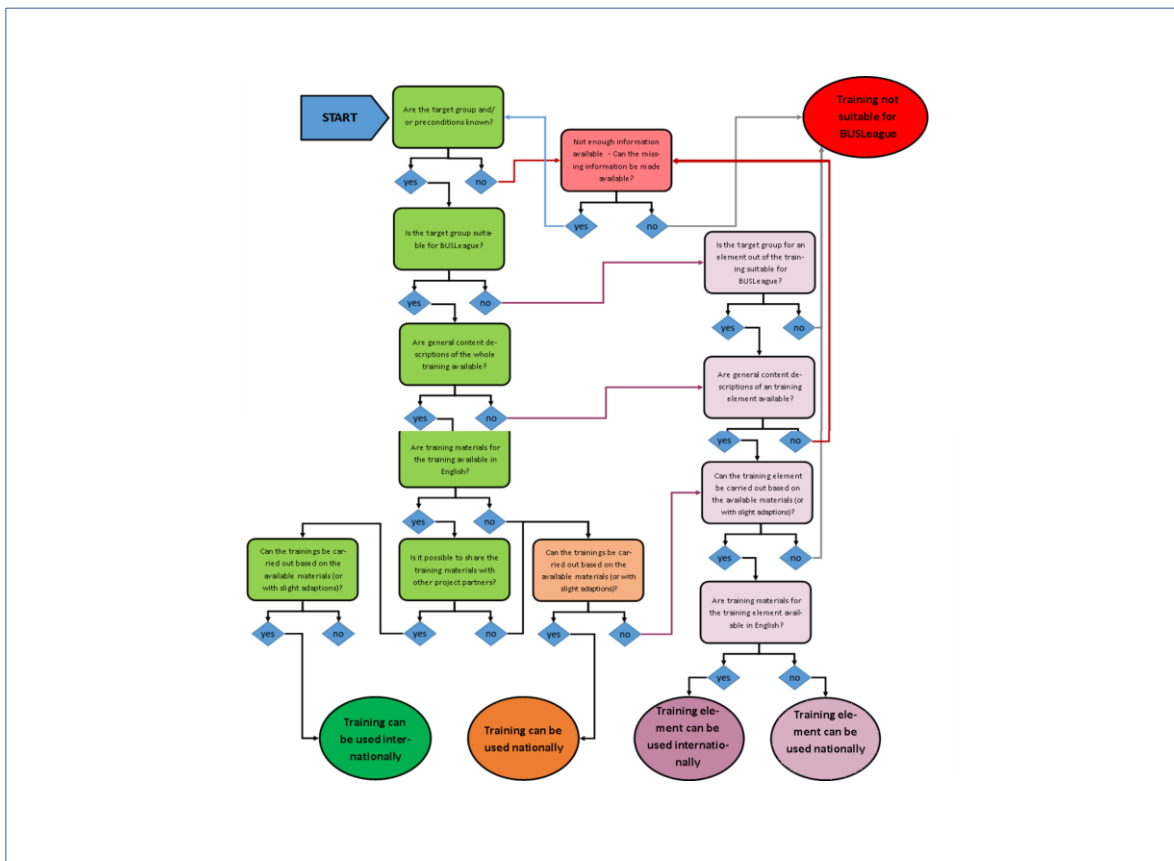


Report on available training content and resources

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 Partners involved: ISSO, PF, EnE, IVE, TUS
 Related Deliverable: D4.1



DESCRIPTION

This report provides the basis for the further preparation of upskilling activities needed in the partner countries by building upon the experience of the previous BUILD UP Skills and Construction Skills projects and the work done so far in the BUSLeague project.

Based on national implementation plans in the partner countries, the focus of this report was to identify, assess and collate relevant upskilling content and resources (curricula, presentations, handbooks, demos, e-tools, schematics, etc.) from previous national and European projects. This was done through a collecting and reviewing process tuned to the specific needs of the project.

In the first phase, the partners were asked to clarify their national implementation plans and announce relevant upskilling trainings that are already available in their countries to build upon. In order to collect data and identify if an existing training scheme or module is relevant for the further implementation in BUSLeague, a specific collection scheme (including specific questions for further evaluation) was created. This collection scheme was filled in by the partner countries. According to this collection scheme, 60 trainings or training modules have been registered by the project partners.

In the second phase, in the extent to which these trainings can be used in BUSLeague was evaluated. To be able to assess the collected trainings according to a uniform scheme, a decision tree was created. Based on the assembled information on relevant trainings (training modules) available in the partner countries, this decision tree was used to find out whether the training or the training module is generally suitable for the implementation in the frame of the BUSLeague project. Moreover, it was clarified if the training or training module can only be implemented nationally or also internationally.

The evaluation of relevant training programmes and modules in partner countries led to the conclusion that most of them are (at least partly) within the specific scope of the BUSLeague EE-skills qualification¹. Unfortunately, the upskilling content and resources (such as general content descriptions, training materials, suggested examination procedures, lesson plans and descriptions of learning outcomes) of many of the training modules are only available in national languages. This means that these training modules cannot be used in other partner countries without further adaptation. Nevertheless, these training modules can be used nationally for the further implementation within BUSLeague, especially for the development of short training elements/modules.

The following identified training programmes and modules not only fall within the specific scope of the definition of the BUSLeague EE-skills qualification, but also provide upskilling content and resources in English. Therefore, they can be used in all partner countries to build upon, if national demand is identified.

¹ A specific scope of relevant qualifications to be developed within BUSLeague has been defined.



Collected trainings/training modules that can “potentially” be used in the partner countries (Source: Austrian Energy Agency)

No.	Country/Partner	Training (programme/module) title
1	Austria/AEA	Basics of Building Physics (Module of Building Inspection)
2	Austria/AEA	Quality Inspection of the Building Envelope (Module of Building Inspection)
3	Austria/AEA	Energy Balances and Demand Forecasts, Energy Certificates and Certification Programmes (Module of Building Inspection)
4	Austria/AEA	Renovation Concept (Module of Building Inspection)
5	Austria/AEA	General Tasks for the Building Inspection (Module of Building Inspection)
6	Austria/AEA	Monitoring Process (Module of Building Inspection)
7	Austria/AEA	Building Operation (Module of Building Inspection)
8	Spain/BH and IVE	Energy Efficiency in Buildings
9	Ireland/TUS	NZEB Fundamentals (Attention: confirmation needed by the education training board if the available materials can be shared internationally)
10	Ireland/TUS	NZEB Retrofit (Attention: confirmation needed by the education training board if the available materials can be shared internationally)
11	Ireland/TUS	NZEB Ventilation (Attention: not the whole training but selected training modules correspond to the scope of the BUSLeague EE-skills qualification)
12	Ireland/TUS	NZEB Site Supervisor (Attention: not the whole training but selected training modules correspond to the scope of the BUSLeague EE-skills qualification)
13	Ireland/TUS	NZEB Electrical (Attention: not the whole training but selected training modules correspond to the scope of the BUSLeague EE-skills qualification)
14	Ireland/TUS	NZEB Plumbing (Attention: not the whole training but selected training modules correspond to the scope of the BUSLeague EE-skills qualification)
15	Ireland/TUS	NZEB Carpentry (Attention: not the whole training but selected training modules correspond to the scope of the BUSLeague EE-skills qualification)
16	Ireland/TUS	NZEB Bricklayers (Attention: not the whole training but selected training modules correspond to the scope of the BUSLeague EE-skills qualification)
17	Ireland/TUS	NZEB Plastering (Attention: not the whole training but selected training modules correspond to the scope of the BUSLeague EE-skills qualification)
18	Ireland/TUS	LU ² 1: NZEB Collaborative BIM ³ to Achieve NZEB (Attention: not the whole training but selected training modules correspond to the scope of the BUSLeague EE-skills qualification) – BIMzeED

² Learning Unit (LU)

³ Building Information Modelling (BIM)



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19	Ireland/TUS	LU2: BIM & NZEB for Workers (Attention: not the whole training but selected training modules correspond to the scope of the BUSLeague EE-skills qualification) – BIMzeED
20	Ireland/TUS	LU4: NZEB Realisation & Commissioning: Building Services & Smart Technologies (Attention: not the whole training but selected training modules correspond to the scope of the BUSLeague EE-skills qualification) – BIMzeED
21	Ireland/TUS	LU5: Realisation & Commissioning Quality Assurance (Attention: not the whole training but selected training modules correspond to the scope of the BUSLeague EE-skills qualification) – BIMzeED
22	Ireland/TUS	LU6: BIM Model Uses during Construction (Attention: not the whole training but selected training modules correspond to the scope of the BUSLeague EE-skills qualification) – BIMzeED
23	Ireland/TUS	LU7: BIM Model Uses for Specification & Quantification (Attention: not the whole training but selected training modules correspond to the scope of the BUSLeague EE-skills qualification) – BIMzeED
24	Ireland/TUS	LU8: BIM Model Standardisation for NZEB Design (Attention: not the whole training but selected training modules correspond to the scope of the BUSLeague EE-skills qualification) – BIMzeED
25	Ireland/TUS	LU11: NZEB Building Facility Management (Attention: not the whole training but selected training modules correspond to the scope of the BUSLeague EE-skills qualification) BIMzeED
26	Ireland/TUS	LU12: BIM in Facility Management Software (CMMS) (Attention: not the whole training but selected training modules correspond to the scope of the BUSLeague EE-skills qualification) – BIMzeED
27	Bulgaria/EnEffect	Fit-to-NZEB Programmes on Deep Energy Retrofitting
28	Bulgaria/EnEffect	CraftEdu Programmes for: 1. HVAC ⁴ Installers 2. Carpenters 3. Electricians (High Voltage) 4. Installers of Windows and Doors 5. Hydro-Insulators (Roofs and Foundations) 6. Electricians (Low Voltage) 7. Chimney Sweepers (Installation) 8. Chimney Sweepers (Inspection)

MORE INFORMATION

The full version of this deliverable can be found on the BUSLeague project website at the following link: <https://busleague.eu/outcomes/>

⁴ Heating, Ventilation and Air Conditioning (HVAC)



OTHER PICTURES

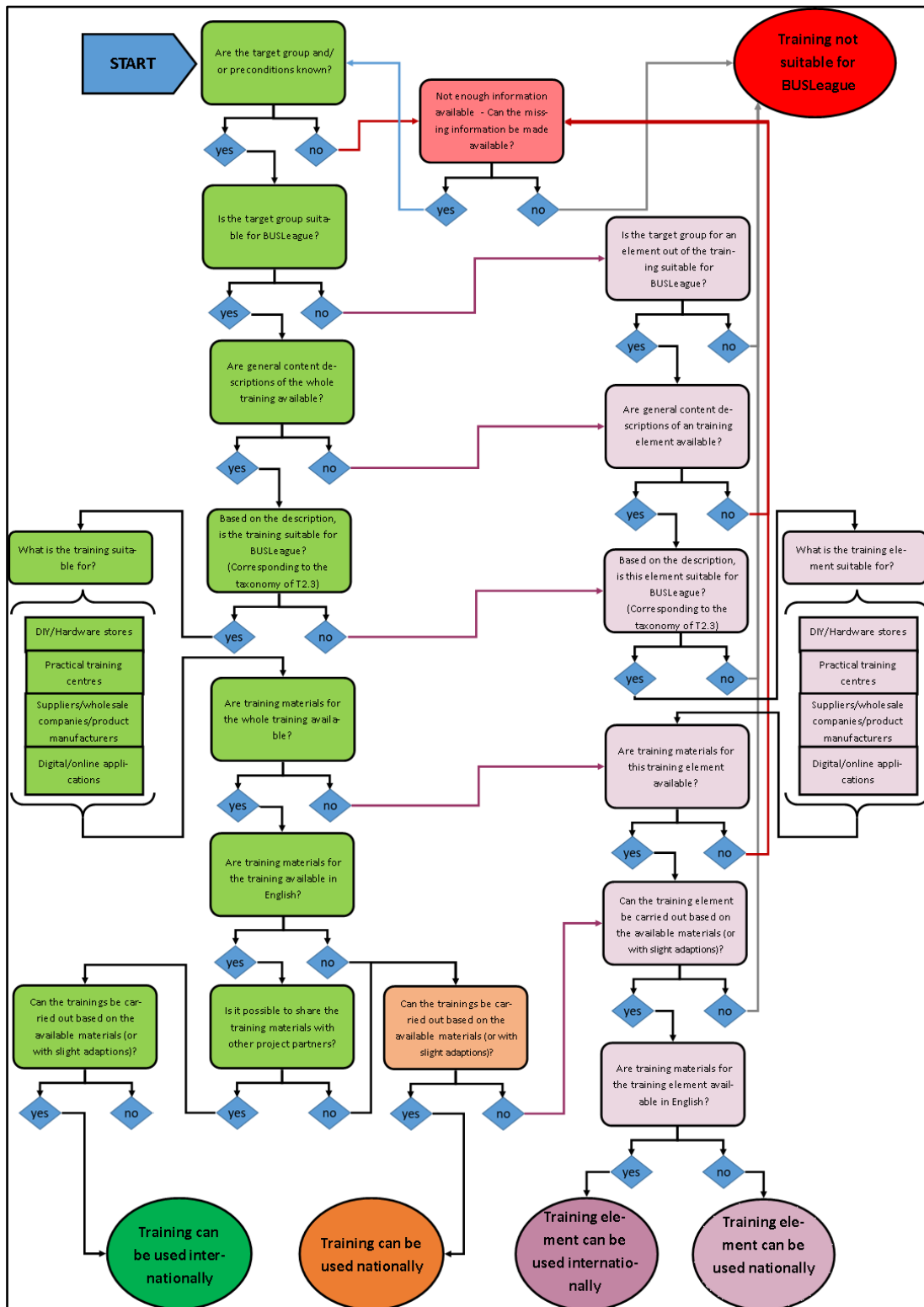


Fig. 1: Decision tree developed as basis for the evaluation process
(Source: Austrian Energy Agency)



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