

Joint development of the worldwide first digital learning platform for forklift and crane user license trainings with a focus on enabling the validation of driver licenses within neighbouring countries of Austria.

Summary

Profile type	Company's country	POD reference
Technology offer	Austria	TOAT20220718004
Profile status	Type of partnership	Targeted countries
PUBLISHED	Research and development cooperation agreement	<ul style="list-style-type: none">• Germany• Italy• Slovenia• Slovakia• Hungary• Czechia
Contact Person	Term of validity	Last update
Philipp Schöftner	18/07/2022 18/07/2023	25/07/2022

General Information

Short summary

Crane and forklift driving licenses are still based 100% on physical attendance and licenses are only valid within the country where the license was issued. A public funded, Austrian consortium develops the first digital training platform to overcome the shortage of licensed operators, to enable a multi national valid driving licence and to increase the quality and flexibility of education. Development partners are needed to ensure multi national interoperability (R&D cooperation).

Full description

COMPANY DESCRIPTION

The purpose of the Austrian Non-Profit Organisation is to develop, promote and sell high-quality educational and testing methodologies and training material with a focus on forklifts and cranes. The NGO is also authorized to issue crane and forklift user licenses. Quality criteria are ensured by close contact with key Austrian industrial partners and participation in research projects.

PROBLEM DESCRIPTION

The current shortage of crane and forklift operators threatens the supply chain. Reasons for this shortage are:

1. Existing training systems for crane and forklift user licenses are 100% based on physical attendance. There is no digital tool (worldwide) supporting training institutes and companies. In combination with a shortage of trainers and Covid (trainings have not taken place physically) the number of courses available were and are still limited.
2. Crane and forklift driving licences are only valid in the country of issue because legal regulations for crane and forklift licenses are different within European countries although the same cranes and forklifts are used and therefore also the same dangers exist when using them. As a consequence, a license from abroad is not valid in Austria and vice versa.

DESCRIPTION OF THE SOLUTION

The Austrian NGO aims to develop a fully digital multilingual training and examination platform for crane and forklift operators, with which trainees can obtain an internationally valid driving licence. Therefore, the NGO started a national public funded project (05/2022 – 09/2023) to develop an IT Tool for crane and forklift license courses. This e-learning platform is aimed to meet the latest pedagogical and digital requirements. The intention is to complement trainings with physical presence and not to replace them totally. The digital solution is planned to be ready in September 2022 and subsequently the relevant content will be elaborated in detail. Integration of practical training content is planned to be implemented via VR glass solutions, etc. once this project is finished.

This IT Tool will cover the legal and technical requirements for the training of crane and forklift drivers of neighbouring countries of Austria (except Switzerland & Liechtenstein). Additionally, it will consider the country-specific ways of teaching the contents. Consequently, licenses made in neighbouring countries (Germany, Czechia, Slovakia, Hungary, Slovenia, Italy) will be valid in Austria too if made with this IT Tool due to a project cooperation with Austrian recognition agencies. Licenses made in Austria will cover all contents from neighbouring countries and only have to be validated by the national recognition agencies. Subsequently to this project the solution is planned to be expanded to other European countries and Turkey.

PARTNER SOUGHT

The Austrian NGO is interested to find cooperation partners active in the training of crane and forklift users. Potential partners are (industrial) companies that are training their employees, companies that are authorized to issue user licenses and recruitment companies with a need to train employees to enable the successful placement of workers. Cooperation partners are sought to give input and to describe their (technical) needs to ensure a successful implementation of the solution that fits for all neighbouring countries of Austria. In this sense a research and development cooperation agreement is sought.

Advantages and innovations

1. The solution will provide the worldwide first solution implementing digital support for the education of crane and forklift users. This solution poses several advantages compared with state of the art courses:

- 1.1 Time and location independent learning possible enabling training institutes to organize courses more flexible.
- 1.2 Training of small groups becomes economically viable
- 1.3 Webinar / chat-direct communication possible
- 1.4 Administrative course organization possible
- 1.5 Learning success control and optimal exam preparation
- 1.6 Prior knowledge and educational level of participants is taken into account
- 1.7 High quality qualification ensured by the implementation of latest pedagogical and digital requirements
- 1.8 IT-Tool will be implemented multilingually

2. The solution will enable the validation of licences between neighbouring countries Austria, Germany, Czechia, Slovakia, Hungary, Slovenia, and Italy. Consequently, the solution is of interest in specific for employees working across borders.

Stage of development

Under development

Sustainable Development goals

- **Goal 4: Quality Education**
- **Goal 8: Decent Work and Economic Growth**
- **Goal 17: Partnerships to achieve the Goal**
- **Goal 9: Industry, Innovation and Infrastructure**

IPR Status

No IPR applied

Partner Sought

Expected role of the partner

TYPE OF PARTNER SOUGHT

The Austrian NGO is interested to find cooperation partners active in the training of crane and forklift users.

1. Institutes that provide forklift and crane trainings
2. Industry partners that provide trainings on its own authority
3. Recruitment companies

ROLE OF PARTNER SOUGHT

Cooperation partners are sought immediately to give input and to describe their (technical) needs to ensure a successful implementation of the solution that fits for all neighbouring countries of Austria.

Specific cooperation interests in the project phase (Tool-development):

1. Get involved in the test phase and give feedback regarding national specifica
 - 1.1 Relevant national standards
 - 1.2 How does the course work in practice in your region? Used device, hours, etc.?
 - 1.3 Match national, technical specifica
 - 1.4 What can be the added value of the tool in your region?
 - 1.5 etc.

2. Level of involvement needed

2.1 The Austrian project team will visit cooperation partners on-site to discuss relevant aspects (several half-day workshops)

2.2 Beta-Version testing with support from Austria

3. Advantages of being involved in the process and not just using the product once it is finished:

3.1 The tool will fit exactly to the needs of potential cooperation partners

3.2 First on market: The partners will be ready to use the tool as soon as the development is finished.

3.3 Possibility to take marketing measures to acquire new customers

Type of partnership

Research and development cooperation agreement

Type and size of the partner

- **Big company**
- **Other**
- **SME 50 - 249**
- **SME 11-49**
- **SME <=10**

Dissemination

Technology keywords

- **02010003 - System and transportation**
- **02008004 - Railway Transport**
- **11002 - Education and Training**
- **02008005 - Road Transport**
- **02008003 - Logistics**

Market keywords

- **08006001 - Process control and logistics**
- **09001007 - Other transportation**
- **09001006 - Airfield and other transportation services**
- **09001002 - Trucking**

Targeted countries

- **Germany**
- **Italy**
- **Slovenia**
- **Slovakia**
- **Hungary**
- **Czechia**

Sector groups involved