

Preparing VET Students for Tomorrow's Labour Market II.



Responsive Project Methods

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IF YOU HAVE ANY QUESTIONS REGARDING THIS BOOK OR THE PROJECT FROM WHICH IT ORIGINATED

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Introduction

This book is the second volume of two, resulting from the „Reacti-VET - Teachers for Reactive and Responsive Vocational Education” Erasmus+ project, which ran from 2019 to 2021. The content was developed by the project team (from Hungary, Italy, Estonia and the UK), pulling on its long and collective experience in vocational education, 21st century teaching methods and eLearning.

The goal of the project was to develop a new, responsive methodology, to enable leaders and teachers in vocational education to respond quickly to address skill gaps identified by the labour market, which itself is changing at a pace never before experienced.

The two volumes of the book have the same title of „Preparing VET Students for Tomorrow’s Labour Market”. The subtitles of the volumes are as follows:

Volume 1: Teaching Practices Revisited

Volume 2: Responsive Project Methods

While the first volume includes the learning content of training program for teachers¹, helping them to expand their own professional portfolio with 21st century active teaching methods and skills, this second volume provides a detailed description of a responsive project methodology aimed at delivering upskilling micro-courses for the students. These micro-courses – integrated into the curriculum and using active, digital learning methods in a blended form – teach specific chunks of knowledge and skills not generally included within the standard curricula but considered to be essential for today’s job market.

During the project the partnership piloted both the training program (in Italy, Hungary and Estonia) and the responsive project method (in Hungary and Estonia) with relevant stakeholders of vocational education, leaders of schools, teachers, students and local actors in industry.

The teachers who took part in the initial upskilling training delivered their own pilot responsive projects to their students, supported by a team of teachers and local companies. Their project results and their experiences are published in the second chapter of this book.

We recommend these books to all teachers of vocational education who are motivated to refresh and reorient their teaching practices to ensure the success of their students in their future jobs. The responsive project methods hopefully help them to reactively address the learning needs of their students in the ever-changing labour market, and also to assist them to further enhance their own continuous professional development.

I would like to express my thanks to all Reacti-VET project partners, to all the experts and teachers who worked with us on these developments, and to the Hungarian National Agency - the Tempus Public Foundation - for supporting us over the period of this Erasmus+ project.

Maria Hartyányi, project coordinator

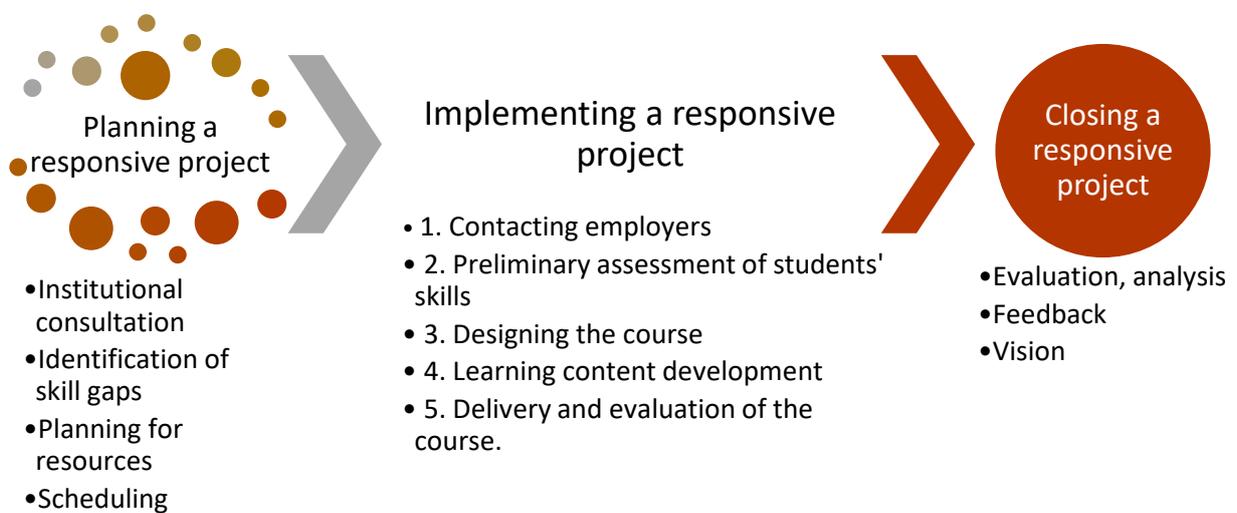
¹ See the course description on the back cover page.

Responsive Project Method

A RESPONSIVE PROJECT – FROM PLANNING TO IMPLEMENTATION

A responsive project is a bottom-up initiative within a vocational school, the background to which is generally a joint decision by the heads of institutions and teachers to respond to the current demands of the labor market by mobilizing their own internal resources.

The starting point of the project is the assumption that teachers of vocational subjects, in an actual vocational training program, constantly strive to follow the changes of their profession and that they recognize which areas are already significantly demanded by the employers but have not yet been included in their system of learning requirements. This is generally due to the pace of economic and technological change.



Who are involved in each phase?

Planning	Implementing	Closing
Head of the institute, teachers	Teachers, students, employer	Teachers, students, head of the institute, employer

Planning

Essential conditions for starting a project of this nature include support from the leadership of the institution and an openness and willingness on behalf of the teaching staff to cooperate in a joint development for the future success of their students in the labor market. Participation by the teachers may also be advantageous for their own professional careers.



There is generally always a free time slot built in a curriculum for it to be adapted to specific requirements. The use of this time can be decided upon by the leaders and teachers' board of the institution to develop specific competences. The planning of this project may then start with institutional consultations leading to a decision for a group of enterprising teachers to launch a mini-training course for students, combining this free time slot with extracurricular activities, mobilizing internal resources and seeking cooperation from local enterprises. Starting the project is therefore about making a joint decision on goals, planning for resources and scheduling.

Implementing

This methodological guidebook details the steps of the implementation, providing guidance to teachers about contacting external stakeholders (such as local organizations, companies, SMEs) to delivering a mini-course and its evaluation. The steps of the process, in brief, are:

1. **Establishing contact with companies:** *each teacher should research and choose at least 5 SMEs or other local organizations to involve in the course, and engage in direct contact with at least 3 of them. At the end of this phase, teachers should have obtained at least:*
 - a. **questionnaires, interviews or surveys** on missing skills in the job market filled in by 3 companies;
 - b. **company agreement signed by at least 1 company**, as a proof of its commitment to participate to the Upskilling Course for Students by defining a project task for students, delivering a few hours of online or face-to-face workshops and assessing the final presentations of the students.
2. **Pre-assessing students' skills:** *based on the skills and knowledge needed by the company, teachers must assess their students' previous knowledge in the selected field using an anonymous self-assessment test submitted AFTER the company has defined the project task for the students and BEFORE the design of the course.*
3. **Design of the Upskilling Course for Students:** *Teachers are free to build the Upskilling Course according to normal practice, as long as they respect the following division: 10 hrs. of modules integrated into the usual lessons; 15 hrs. of extra lessons; 5 hrs. to use for activities of their choice (our suggestion: use them to create opportunities for interaction between companies and students); 1 hr. final assessment.*
4. **Development of the content:** *based on the results of the pre-assessment of students' skills, teachers must create the content for the module/s of their course using the Reacti-VET Upskilling Training for Teachers as a guide. 60% of the learning content should ideally be Open Educational Resources (OERs) found online, while 40% must be newly developed contents in collaboration with students and companies.*
5. **Delivery and Final assessment:** *this phase foresees the use of 3 tools, aiming at assessing the progress made by the students from all points of view: the students', with the Self-assessment Test (the same used for the pre-assessment of students' skills), the teachers' with the Skills Evaluation Test and the companies', with the Final Presentations.*

Closing the responsive project

The presentation and evaluation of the student projects – the fifth phase - is an important part of the implementation of the responsive project. In this phase, the student teams report on the additional knowledge and skills that they have acquired from the course by publicly presenting their projects at the close of their course.



This is followed by the formal closure of the responsive project within the institution itself, at which stage it can analyse and feedback results from the student projects. Ideally this should result in the methodology and ideas being built into the future vision of the institution. The institutional level project closure steps are:

- *An internal analysis and evaluation of the project results, and identification of possible mistakes and pitfalls based on the feedback of stakeholders (students, teachers, external companies);*
- *An evaluation of the results in the light of the individual professional development of the teachers and the long-term strategic goals of the institution;*
- *Planning for the utilization and further application of the results of the responsive project method in line with the vision of the institution.*

One of the most important steps when closing the project is that the institution should make a decision on how to integrate the long-term, positive impacts of the responsive project that can be measured through following-up of professional paths taken by its graduates.

In the next chapter, we present the five phases of a responsive project in detail, supplemented with methodological guidelines and templates.

Implementation -step-by-step

PHASE 1 - ESTABLISHING CONTACT WITH COMPANIES

Reasons to involve companies in your upskilling course

The aim of the Reacti-VET Upskilling Course for Students is to provide upskilling training, aligned with the current requirements of the job market, reflecting the needs of local businesses (organizations, industries and SMEs). This feature makes it vital **to involve local companies in all the phases of the upskilling course**: from its preparation and design to its delivery and final assessment.

Preliminary research of local companies

What will you do in this phase?

You will decide which type of company is better to involve in your course (defining the criteria)

The development of a targeted upskilling course requires some preliminary work. Careful preparation makes both the results and the management of the course easier and more effective. If this preliminary work is not well structured, or it is poor, the risk of not reaching the final goal and not accomplishing the fixed objectives rises exponentially. In addition to this, it may translate into a much greater burden of work for the management of the course, as unexpected situations may be more likely to occur, affecting the implementation of course activities.

When a course is developed in cooperation with companies, the **first necessary step is the right choice of which companies to involve**. To do so, you must know the local context and industrial area, as well as the main features of your planned course. Among the latter, you should consider:

- *the sector of the course (e.g. ICT, Administration, Tourism, Marketing.);*
- *your subject of expertise (for which you wish to develop your course).*

Remember that you should address only those business needs that are COHERENT WITH YOUR TEACHING SUBJECT because you don't want to find yourself teaching topics you have never heard of!

When you have defined the features above, you can start the research of one or more partner companies. Keep in mind that, with the aim of obtaining the best results, **companies should respect some requirements**. We suggest you find companies that are:

- **local**: *a company which is physically close to your institution will better match with your needs, school facilities, teaching methods and will make networking activities easier (e.g. one of your students' parents may work for the company or have friends or relatives in that company);*
- **virtuous**: *your upskilling course will be based on input provided by the selected companies, so these should have proven experience and expertise and be well established. A company without experience may have difficulties in identifying specific needs and may not have time or interest in supporting the training activity;*
- **"familiar"**: *as first step, it is much easier to involve companies that you personally know (e.g. a company where a friend or relative works or has worked in the past). When you gain more experience in participatory course planning, you may then start searching and approaching other companies as well;*
- **active in the specific sector and subject**: *when searching for a company, do not waste time with those that work in a sector that is completely different from your teaching subject, even if they are appealing or if they fulfil all other criteria. You need the company to have expertise in your specific subject, or it will not have the right competences to support you;*
- **eco-friendly**: *respect our planet and choose a "green" company!*

Based on your needs and preferences, integrate these criteria with your personal ones.

Now it is time to start looking for companies. You will have **different options**, such as:

- **using your contacts and your colleagues' contacts** *(and students as well! Each of them may know someone who knows someone...): this is the simplest way. Usually, when you personally know someone working in a company, they will more likely be open to dialogue and willing to establish a cooperation agreement (this doesn't mean that a company that you don't have contacts with will never accept to cooperate with you! It will just require a little more effort at the beginning).*
- **contacting local chambers of commerce**: *even if it may seem difficult, this strategy will provide you with a long list of local companies active in your sector of expertise. You may also decide to use specific services, such as online registers of companies (some information are usually provided for free, some require a subscription) or you can contact your local chamber of commerce and ask them for some advice. Watch out: do not forget your goal and be careful not to get lost in this sea of information!*

- **via trade organizations:** it is similar to the previous strategy, but it has the advantage of circumscribing research into a specific sector.
- **research on the web and social media** (mainly LinkedIn): even if it may seem unprofessional, actually it is a fast and easy way to identify companies. On LinkedIn, make sure to browse the JOBS sections, it can be helpful to check out the companies in your area that are searching for interns or that have published several job offers, as they may be interested in collaborating on the design of an upskilling course.

You can also decide to use more than one strategy together, e.g. researching on the web, and then collecting more details using company registers.

When you have identified a group of interesting companies, you should select those which seem to be closer to your needs and prepare a sorted list that can help you decide who to contact first.

Preliminary research of companies – Example

AB School (Tallinn) needs to find a company for the development of a course in the marketing sector. They want to focus on digital marketing.

Tony (teacher of the course of Inbound Marketing in AB School) starts searching on the web “marketing agencies Tallinn”. As Tony finds many results, he decides to modify the research in “digital marketing agencies Tallinn”. This way, he finds lists of companies active in the sector.

A first pre-selection is based on their websites, where Tony finds more information on their expertise. In fact, he is trying to identify a company which can provide a real added value to his course.

Then, Tony checks the pre-selected companies on the online company registration portal. This helps Tony sort out a list of possible partners.

Finally, Tony asks around to see if any of his friends, relatives or colleagues have a direct contact with an employee or manager of this company, because that would be an easy way to start collaborating. Otherwise, he will contact the Human Resources office or the Public Relations Officer of the company directly via mail or phone!

In short, for the preliminary research of local companies you have to:

- *define the main features of your planned course;*
- *identify the type company that responds to your needs;*
- *search for companies in your territory;*
- *prepare a sorted list of interesting companies.*

Developing tools to identify skill mismatches

What will you do in this phase?

You will develop a questionnaire, survey or interview and you will submit it to at least 5 local companies with the aim to identify skill mismatches.

Establishing contacts with companies is necessary to collect important information for the development of the upskilling course for your students. What you need to define is: which data to research and collect and which tool to use for the collection.

Based on the particular course subject, you will need to investigate:

- *possible skill gaps that the company often detects when hiring new employees or when dealing with interns;*
- *new professional needs that are not yet satisfied by existing staff;*
- *newly developed (or even just planned) departments within the company;*
- *difficulties experienced by Human Resources and top management with the current staff.*

To investigate these aspects, you can choose between physical or online tools. Physical tools have the advantage of facilitating a mutual exchange and the creation of human connections. These tools include face-to-face interviews, focus groups, visits to the company. On the other hand, some situations make it inconvenient or impossible to use these tools (e.g. the lockdown deriving from the Covid-19 biological emergency has prevented physical meetings in many countries for several months). In these cases, it is useful to use online tools and resources.

We suggest you create online questionnaires or surveys.

Here is a short description of some of the above-mentioned tools:

- **Interviews:** *Although interpersonal dialogue is considered a qualitative method in data collection that is quite difficult to summarize and explicit with numbers, it can definitely help you get a picture of the feelings and motivations of the respondent, way beyond the simple yes or no answers. In this case, you will only need to contact 5 companies, so it may be worth defining a short interview line-up to submit face to face or by phone to company representatives (especially HR or PR officers).*
- **Focus groups:** *a tool through which a group of people is brought together and asked to express their opinions. While interviews always involve an individual, the members of a focus groups members might interact and influence each other during the discussion.*
- **Surveys and questionnaires:** *a questionnaire survey is a quantitative research method, a standard data collection method that enables a unique formal questionnaire opportunity to be used by the researcher using appropriate, relevant methods. It is less personal than the interview method, so it may be easier to find companies willing to answer a survey (pros) but at the same time it is a missed opportunity through which to start an interpersonal relation with the company's representatives (cons).*

⇒ Please refer to **Reacti-VET Upskilling Course for Teachers, Module 1, Unit 2 and Unit 3** for the choice and use of data collection tools.

For example, you may use [Google Forms](#), an app included in the Google Office Suite. It allows collaboration and sharing, and surveys and quizzes can be enriched with several media. It is possible to invite collaborators or to get a shareable link, and the answers are collected in real time in a datasheet which is created by default and stored in Google Drive.

Here is a template that you can use as an example when creating your own questionnaire for local companies:

TEMPLATE - QUESTIONNAIRE FOR COMPANIES
COMPANY'S DETAILS
<ul style="list-style-type: none">• <i>Name and Surname of the company's representative:</i>• <i>Name of the company:</i>• <i>E-mail:</i>
EMPLOYMENT NEEDS
<ul style="list-style-type: none">• <i>Does your company have any plans for new hiring or replacement of staff (turn-over, retirement, etc?) (Y/N)</i>• <i>If you answered "YES", how many people do you plan to hire? (number)</i>• <i>In which areas of the company? (select answer between the following: Production / Design / Sale / Administration / Human Resources / Management / Other, please specify.....)</i>
JOB PROFILE
<ul style="list-style-type: none">• <i>If your company has identified the job profiles - role, skills, duties - for which you intend to recruit, would you like to share them in the logic of building training courses that are increasingly closer to real needs? (Yes, I will send our job profiles to.@.. / No)</i>• <i>If you have answered "NO", which of the profiles described below is more consistent with your professional needs? (List school's training courses)</i>
REQUESTED SKILLS
<ul style="list-style-type: none">• <i>What skills do you often find lacking in new employees or interns? Please list them (open-ended question)</i>• <i>Is there an area / department of your company that is undergoing continuous changes and that would need staff with updated skills and knowledge? (Y/N)</i>• <i>If you answered "YES", please specify what area or department and what kind of skills or knowledge. (open-ended question)</i>

In short, for the development of tools to identify skill mismatches you will have to:

- *define the main point of interest to investigate with companies;*
- *choose a tool to use;*
- *collect information.*

Developing direct contact with companies

What will you do in this phase?

You will develop direct contacts with at least 3 local companies that agree to collaborate to the design, delivery and assessment of the Upskilling Course for Students.

Even for those of you with no experience of SMEs, establishing a contact with companies is not difficult, as it only requires being informed and some common sense. However, you might find some of these tips useful to get started:

1. **Select with attention the best person to approach.** Especially if you find contact details online, you should check to have the right reference. If possible, avoid general emails (e.g. info@..) and look for HR (Human Resources) or PR (Public Relations) Officers. They have a greater awareness of the company's needs regarding new staff and of skill gaps (furthermore, it could be an occasion to place your students at the company for an internship!).
2. **Prepare a standard communication but remember to personalize it!** Some information is generic (info on your school, on the project...), but other parts have to be tailored on the chosen company. Do not simply refer to the sector of production, you should express your interest in that specific company: you do not want ANY company working in that area, you want THEM!
3. **Offer a bargaining chip.** You could find companies interested in participating because they want to contribute to the training of local students or help to improve the preparation of future professionals. Many companies will only collaborate if they see some benefit in doing so. It doesn't mean you have to pay them for their cooperation, obviously, but try to be persuasive about the direct benefits for the company. For example, proposing further cooperation and the creation of a partnership (you can propose to send your students for internships at their company or offer upskilling courses for their employees).
4. **Be aware of your possibilities.** Offering more than what you can really give is counterproductive. Check your possibilities with your school's management before starting any negotiation.
5. **Decide who will be the school contact for each company:** many different people managing the same partnership may create troubles (coordination is not always easy, and the company representatives may feel confused if approached by different people from your school). If your school wishes to create a stable collaboration with certain companies, it could be useful to identify the staff members who will be dedicated to this.
6. **The human element matters.** Plan to use both written communications (such as emails), to be more formal and have a trace of your arrangements, and calls and visits to companies, to let them hear your voice and meet you personally.
7. **Keep continuous contacts.** It requires some time to create a connection with a company, but it may be quite fast to lose what you have gained so far. When you start a contact, you have to take care of it. You should avoid contacting a company only when you absolutely need it, but at the same time, avoid invasive communications.

The case study below may be a source of inspiration when planning collaboration schemes between your institute and local companies.

Case Study – Fondazione JobsAcademy (JAC, Italy)

Fondazione JobsAcademy (JAC) is a short-cycle Higher Education Institution located in San Paolo d'Argon (Bergamo, Italy), set up to train skilled technicians in strategic areas for the Region's economic development and competitiveness. Its courses are highly specialized in technology, in connection with the local production industry. It is accessible to all those who completed a high school cycle (EQF 4). Its 2-year courses provide a technical level EQF 5 qualification.

How do companies and JAC keep contact typically?

JAC has some dedicated staff for managing contacts with companies. The main contact modalities are calls, visits to companies (also with students), students' internships, business seminars in JAC, events for companies in JAC.

Do companies take part in JAC's process of defining teaching contents?

The teaching contents are agreed between JAC and the entrepreneurs: JAC provides guidelines on the necessary contents (as required by Italian Ministry of Education and/or JAC's strategy) and the professionals develop the actual content. JAC has given a systematic character to the analysis of the professional needs of the companies that usually collaborate in the conception of courses and in the courses design phase, in the organization of internships and workshops and in the work placement of the graduates. Since February 2019, an online questionnaire has been prepared and used by companies to document their needs (e.g. Forecasting new hiring or replacement of staff; Identification of professional profiles in quantitative and qualitative terms, preferable forms of inclusion in the workforce; Identification of the job profile for which they plan to recruit). More than 50 companies replied to the questionnaire and about 40 of them have then formalized their commitment to collaboration in the following phases of the project implementation.

Do companies take part in JAC's teaching process as well?

Professionals from local companies teach in JAC: 40% of JAC's teachers come from the world of education and 60% from the production sector (entrepreneurs, consultants and professionals from the job market). This guarantees the quality of teaching and constantly updated contents in relation to the evolutions and needs of the market in terms of production and technological standards, as well as know-how.

Companies' professionals directly teach in JAC and/or provide all the learning materials. Some training activities are delivered in the company's premises (e.g. labs).

Each student in JAC has 400 hrs./year of mandatory internship in a company. For internships there is a specific formal agreement between JAC-company-student.

Do companies take part in the delivery of the final exams?

Professionals may be involved in the Commission for the final exam.

Do companies assign project tasks to students? How are students assessed by companies?

During teaching activities, companies evaluate students with many types of assessment (project works, exams, presentations...), just like teachers do.

During internships, companies assess students' skills thanks to an on-going monitoring process and, at the end of the internship, they evaluate if students have reached their learning outcomes, defined at the beginning of the internship.

When you have found a company interested in working with you, it is useful to prepare a written agreement to formalize your cooperation.

**TEMPLATE - AGREEMENT FORM – DEFINING CONTENTS FOR THE
REACTI-VET UPSKILLING COURSE FOR STUDENTS**

Company Name(s):
Responsible Person(s):
Role:
Date:

GOAL:

The Reacti-VET project aims to provide effective and necessary training and support for VET teachers to enable them to identify and respond to skill-gaps in the labor market, with the involvement of other relevant stakeholders - students, parents, teaching staff, and particularly employers experiencing difficulties in finding skilled workers to fill vacancies.

This agreement is to set a cooperation between the school _____ and the company _____ in order to identify skill-gaps and to design, develop and deliver upskilling training for students.

TIME FRAME:

Collecting information: from __/__/__ to __/__/__

Development of the course: __/__/__ to __/__/__

Delivery of the course: __/__/__ to __/__/__

DIVISION OF ACTIVITIES BETWEEN THE SCHOOL/INSTITUTE AND THE COMPANY:

School/institute: the school/institute is responsible for managing the whole process. It will collect information from the company (through questionnaires/interviews/focus groups) and use the information for the design of the upskilling course for students.

Company: the company must provide the school with the requested information and give a feedback on the design of the course. In addition, the company will be available for implementing activities with the students (at least 5 hours), and for preparing and evaluating a project task realized by ____ (number) students.

OBLIGATIONS:**I AGREE TO:**

- Commit a minimum of 5 hours to spend on activities in presence (or online) with students;
- Cooperate with the School/institute for identifying their needs and designing the course;
- Prepare a project task, in cooperation with the school, and assess the student's final presentations;
- Provide feedback and evidence as requested.

TERMS AND CONDITIONS:

- A non-disclosure agreement will be made available to you upon request.
- All IPR owned by either party at the date of the contract is and shall remain the exclusive property of that party.
- The Reacti-VET PROJECT PARTNER _____ reserves the non-exclusive right to use such IPR in the results of the Reacti-VET PROJECT for the purposes of academic research and teaching and publication.
- Please note that the Reacti-VET project wishes to use your involvement in the project as an example of a good practice. We will however seek your permission prior to releasing any material. Should you not wish to disclose any information for this purpose, please let your project partner know.

EXIT CLAUSE:

I understand that I can exit the Reacti-VET-programme at any time,

Company:

Signature (& stamp):

Reacti-VET Project Partner:

Signature (& stamp):

PHASE 2 - PRE-ASSESSMENT OF STUDENT SKILLS

What will you do in this phase?

You will develop a pre-assessment tool based on the project task identified by the company

Once you have collected information from companies about their needs and skill-gaps, you can develop a tool for investigating student's prior skills and knowledge in that area. This pre-assessment tool will allow you to tailor your upskilling course for students on the specific context of intervention.

Identification of a project task

To start developing this tool, you will first need to receive from the company the project task they intend to assign to students. The company will have to contribute to the course preparation by creating a task that must be completed by the students throughout the course and presented at the end of the course - ideally via a public presentation (face-to-face or online, see paragraph on Final Assessment). The company, together with the teacher, will define what kind of knowledge/skills are needed to solve the proposed task. These skills must be acquired by students thanks to the lessons of the upskilling course. The task can be a real task (e.g. part of a real company project) or just a fictional, but practical, exercise. The company should send through a draft of the project task in advance, before the beginning of the course (remember to agree on timing with the company!), so that you will have more details on the requirements and competences to assess before designing the course.

You have to agree with the company on the criteria for its evaluation, too. The company will assess the project task based on pre-defined criteria, which also will be communicated when the task is actually given to students. You will then undertake a formative assessment of the students, pointing out their development (in knowledge, skills) during the course and project work (more details in the final paragraph of these Guidelines).

Self-assessment ex-ante test to assess prior skills and knowledge

The pre-assessment will be a self-assessment test completed anonymously by the students. You can choose the format you prefer – we suggest you use a questionnaire, as it is the easiest one to use and evaluate. Bear in mind that you will need its results before proceeding with the design of your course, so choose a smart and fast tool and be clear with your students on the necessity for honesty in their answers.

The same questionnaire will be used at the end of the course as a self-assessment test that will help students prepare for the Skills Evaluation Test and for the Final Presentation. When preparing the questions, be as clear as possible. Be sure that questions and answers are not generic or uncertain, as that may lead to flawed results. Questionnaires' results will be one of the starting points for the design of your course. Where possible, use closed questions and rating scales. Add open questions only to collect suggestions or requests.

Try to include in the self-assessment test both hard skills (which will be essential for the design of your course, as you need to know which technical competences to develop) and soft skills (they are a common basis necessary for any job). Soft skills will be assessed during the students' final presentation too. Of interest will be how students' self-assessment match your own final assessment.

Before preparing the assessment test you should already have defined the main features of your course, to ensure you include relevant questions. In fact, each answer should give you a specific indication as to how to develop your course. So, when writing questions, try to imagine which kind of answer you would want in order to improve the design of your course.



This image (https://www.cognology.com.au/learning_center/cbawhatis/) is a useful representation of how a competency based assessment works (including some on-the-job training).

PHASE 3 - DESIGN OF THE STUDENT UPSKILLING COURSE

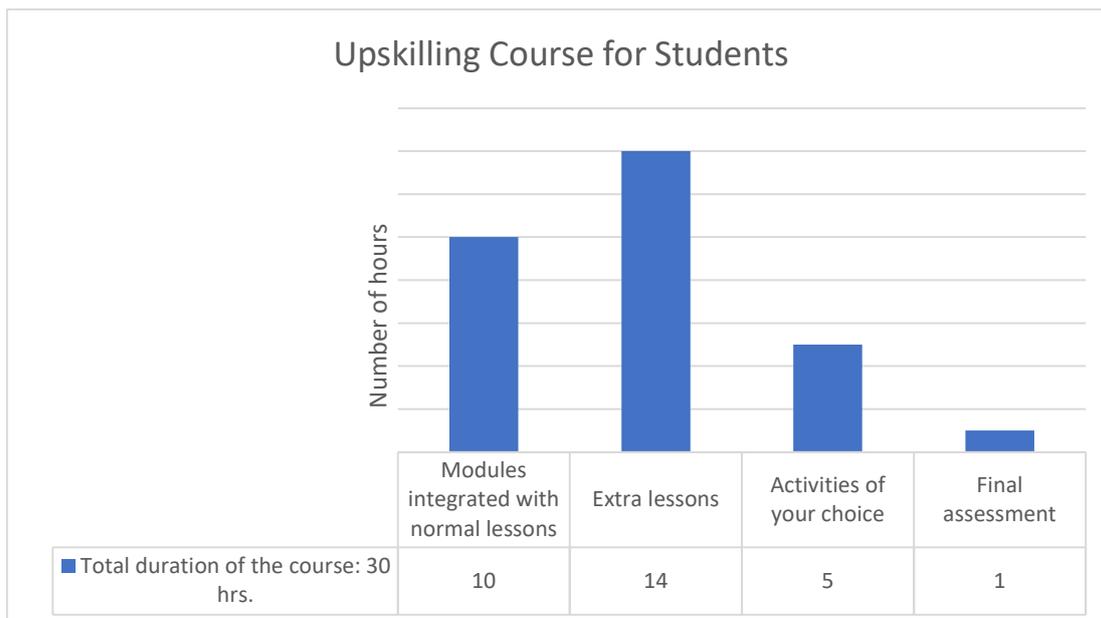
What will you do in this phase?

You will plan your upskilling course, defining: structure, timetable, goals, methodologies, topics and tools.

Structure of the course

Reacti-VET's Student Upskilling Course will be a 30-hour course organized as follows:

- 10 hours: modules and activities built into (integrated) normal lessons
- 14 hours: extra lessons (modules and activities in addition to normal lessons)
- 5 hours: activities of your choice. Our suggestion: use them to create occasions of interaction between companies and students, virtual or face to face!
- 1 hours: self-assessment test, skills evaluation test and final presentation.



The table below shows a possible subdivision of the 30 hours of the course over a period of 2 months (expected duration for the entire course) and an example of the weekly organization of the teaching methodology envisaged. **You can use this table as a template for your own course or use a different scheme**, according to your customs.

Please remember that each teacher may have a different training context (different school hours, different facilities, use of a variety of tools and methodologies, etc.) and therefore it is best if you consider this table just as an example to be adapted to your needs and context.

You should not adapt your teaching methods to the Upskilling Course for Students, on the contrary, the course must be coherent with your teaching context and methods: this way it will be much less burdensome, for you and for your students!

UPSKILLING COURSE FOR STUDENTS STRUCTURE AND TIMETABLE										
	Week	Module	Embedded in ordinary lessons	Self-study	Extra lessons (theory)	Extra lessons (practice)	Workshops and meetings with SMEs	Evaluation	Total hrs per Week	
Month 1	1	Title of Module 1	0		1	0	2	/	3h	
	2	Title of Module 1	2		30'	1	0	/	3h30'	
	3	Title of Module 2	2		30'	1	1	/	4h30'	
	4	Title of Module 2	2		30'	2	1	/	5h30'	
Month 2	5	Title of Module 3	1		30'	2	1	/	5h30'	
	6	Title of Module 4	1		1	2	0	/	4h	
	7	Title of Module 4	1		1	2	0	/	4h	
	8	Self-assessment	10'	0	0	0	0	0	10'	1h
		Skills Evaluation Test	0	0	0	0	0	0	20'	
Final exam / public presentation		0	0	0	0	0	0	20'		
Total			10		5	10	5	1	31	

VIRTUAL OR FACE-TO-FACE?

Due to current Covid-19 restrictions, it may not always be possible to deliver a face-to-face course and to organize meetings with the SMEs and face-to-face workshops in classroom or in the premises of the involved stakeholders (local organizations or SMEs).

The Upskilling Course for Students may therefore be delivered using various approaches:

- *100% online (lessons, meetings with SMEs, assessment tests, workshops, final presentation)*
- *100% face-to-face*
- *blended mode (some activities conducted face-to-face and others virtually).*

If Covid-19 restrictions allow, we suggest the blended solution, as it has a twofold benefit: on one hand it will give you the chance to put in practice many of the topics you studied during the Reacti-VET Upskilling Training for Teachers, and on the other it will “lighten” the training course for your students. The students will learn how to study at their own pace, and they will acquire important self-organization skills.

Design of the upskilling course

The course design process includes the following activities:

- **Identifying appropriate goals:** *What do you want participants to learn during the training? What will they leave knowing more about or what new skills will they have acquired?*
- **Choosing content** *that's consistent with the goals;*
- **Choosing the delivery methods** *to use;*
- **Deciding the time** *allocated for each of the goals;*
- **Building the tools for assessing** *participant learning.*

As part of the design process, teachers should always take into consideration their own teaching style and the learning styles of the selected participants.

KEY ELEMENTS OF EACH MODULE

Even if the Upskilling Course is a relatively short 30-hour course, this doesn't mean that you should skip important elements of the design phase. Remember that many university courses are only 30 or 40 hours long but may have great impact on trainees.

As the course is quite short, it is preferable not to go overboard with the number of modules. Based on the pre-assessment of your students' skills and on the information provided by the company, **select only the main skills / topics that are coherent with your teaching subject and that can be effectively tackled in a short amount of time.**

In 30 hours, you could provide a smattering of a large variety of topics or you can choose to go in-depth on the 3-4 most important topics. The latter approach is certainly more impactful on the trainees!

What **you need to define, for each module** of the course, is:

1. *Title;*
2. *Scope (defined after consultation with companies);*
3. *Topics (chosen together with the involved company);*
4. *Training methodology (for details on methodologies such as the Flipped Classroom or Project-based learning, please see the Upskilling Training for Teachers, Module 2 - Unit 2);*
5. *Learning materials and tools (see the Upskilling Training for Teachers, Module 3);*
6. *Duration.*

The **table below summarizes all the key elements that you will need to define** and decide on **for each module** of your course before developing the training content and delivering your course. You can use our template or create your own, just remember to include all sections!

MODULE – 1	
Title of the Module	Precision Agriculture
Scope and Description	How to manage differentially production factors in order to improve return of investment and reduce environmental impact.
Learning outcomes: Knowledge	<ul style="list-style-type: none"> • <i>Knowledge on variability agriculture activities</i> • <i>Knowledge on resolution agriculture activities</i> • <i>Knowledge on technology and their value</i> • <i>Knowledge on economic and environmental decision making</i>
Learning outcomes: Skills	<ul style="list-style-type: none"> • <i>To be able to interpret soil electric conductivity maps</i> • <i>To be able to develop an intelligent soil/plant sampling</i> • <i>To be able to understand the value of sensors and actuators used on Precision Agriculture</i> • <i>To be able to interpret yield maps</i> • <i>To be aware of the environmental impacts of agriculture</i>
Learning Topics	<ol style="list-style-type: none"> <i>Notions on the concept and principles of Precision Agriculture and the potential benefits from its use.</i> <i>Notions on the better techniques and technologies to evaluate field variability.</i> <i>Skills for implementation and/or use of precision agriculture technologies.</i>
Training Methodology	project-based learning (practical workshops with group activities)
Learning Materials/Tools	PPT presentations; maps; photos; videos; quiz
Estimated Duration	4 hrs.

PHASE 4 - DEVELOPMENT OF THE CONTENT

What will you do in this phase?

You will develop all training contents for your course, using different online tools and media.

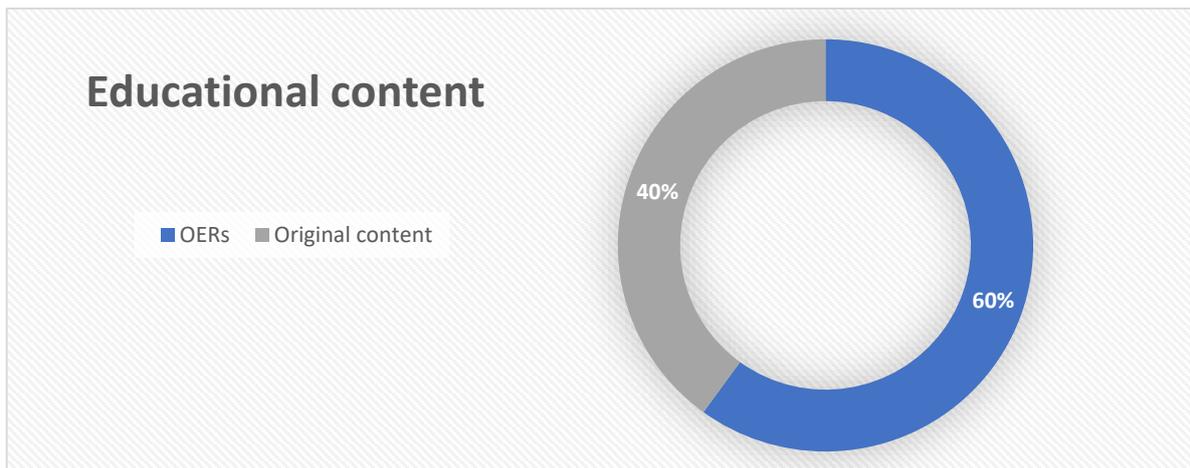
This section offers a very short overview of the tools and methodologies that you can use to build your Upskilling Course for Students, as these topics are tackled in full detail in all 5 Modules of the Reacti-VET Upskilling Training for Teachers.

Indicators

When developing the contents of your course, you should make sure of meeting the following standards and indicators.

OERS OR NEWLY DEVELOPED CONTENT?

When creating the contents of your course, remember that about **60%** of the learning content should be represented by **Open Educational Resources (OERs)** found on the web, while **40%** should be **newly developed content** developed in collaboration with students and companies.



For the research and selection of your OERs you can use:

- **Search engines** such as [Google](#), [Bing](#), etc.;
- **Directories** listed in the OER Database (Module 3 of the Reacti-VET Upskilling Training for Teachers), e.g. [Open Education Consortium](#), [Learning Resource Exchange for Schools](#) or [OER Commons](#), among others;
- **Repositories** listed in the OER Database (Module 3), e.g. [OpenLearn](#), [Curriki](#), [TEDed](#), [YouTube](#)

Important! You should always verify that the resource you found online and that you want to use in your course is really “open”. An OER can legally be used, distributed and modified; it is technically modifiable; it is freely available to the general public (see Module 3 – Unit 1 for more details on Copyright, Public Domain and Copyleft).

DIFFERENT TYPES OF CONTENT

Make sure to use at least **3 different tools from the OER Database** included in Module 3 of the Reacti-VET Upskilling Training for Teachers.

Learning material will be related to the project tasks and aligned with the missing skills determined by the consultation process with students, parents and companies. Each teacher must integrate its ordinary lessons, so content must be developed and selected accordingly. Students should not be overwhelmed with material!

Construction of the course on an online platform

You can freely choose *if* and to what extent you want to use a **Virtual Learning Environment (VLE)** platform for your Upskilling Course for Students.

Your choice will depend on your teaching context in the next year or so. If face-to-face lessons are possible and safe in your country (with regards to the Covid-19 restrictions) you may want to use an online platform simply for the purpose of sharing documents with your students and assessing and/or

keeping track of their progress while, if you are supporting distance learning due to Covid-19 restrictions, your school may probably have already organized its training offering using some kind of virtual learning environment which you can exploit for your Upskilling Course for Students.

➔ For detailed information and instructions on the use of VLEs, please refer to the Reacti-VET Upskilling Training for Teachers Module 4 – Unit 1, and if you choose Moodle as a platform to host your course, check out Module 4 – Unit 3. Microsoft Office 365 Education and Google Classroom are also briefly explained in Module 4 - Unit 3.

PHASE 5 - DELIVERY AND FINAL ASSESSMENT

What will you do in this phase?

You will deliver your course to your students and evaluate if they have acquired the identified skills and knowledge.

Delivery

Delivery of the 30-hour course will take place over 2 or max. 3 months. **Changing the course once you have started to deliver it is NOT a bad thing!** One may think that changing the course *in itinere* could be evidence that something went wrong in the design phase. Quite the opposite. Making modifications and changes to the course while it is ongoing proves that you are flexible and open to external inputs and suggestions coming from your students or the involved companies, and that you are willing to improve your work at every chance you get.

What we are learning here is how to build an upskilling course QUICKLY in order to respond in real time (or almost in real time) to the needs of the job market. This means that it is easy to make some mistakes or incorrect assumptions in the design phase, but also that you must be flexible enough to correct these mistakes as soon as you detect them.

As you conduct the training, you may naturally adjust the design of the course. For example, after working with the group, you may decide to change the time allocation for a particular topic or to change the type of activity associated with a particular topic, for instance, from an individual to a group activity or vice versa.

Ex ante and ex post self-assessment test

Assessment will be consistent with the learning objectives and based on an *ex ante* and *ex post* self-assessment, to prepare the students for the final evaluation, which will ultimately determine if the student is going to obtain the certificate of the Upskilling Course. Aligning assessment with intended learning outcomes is crucial. You must make sure that all Modules are covered both by the self-assessment questionnaire/test and by the final test. If you prefer, you can create several smaller tests, one for each module.

You should create a **“Self-assessment Test”** to help your students monitor their progress during the upskilling course and prepare themselves to the final assessment. The OER Database in Module 3 of the Teacher’s Upskilling Course contains instructions of several tools you can use to create surveys, tests and quizzes. Among these tools it is worth mentioning:

- [Google Forms](#) – See Module 1 - Unit 4 and Module 3 - OER Database
- [Kahoot!](#) – See Module 3 - OER Database
- [Moodle](#) (only if the whole upskilling course is available on Moodle) – See Module - Unit 3
- [SurveyMonkey](#)

You should invite your students to fill in the self-assessment test (preferably online, but you can choose to deliver a paper version) at least twice: the first time before Phase 3 Design of the course (please go back to paragraph on Phase 2 - Pre-assessment of students' skills) and the second time at the end of the course. The self-assessment tests will be anonymous.

You can use the test as a way of measuring your students level of knowledge, with respect to the skills you selected together with one or more local companies, and to verify the degree to which these skills have been acquired by the students at the end of the course.

External assessment by companies and teachers

The Upskilling Course for Students will end with the final assessment performed by both the teachers and the companies.

EVALUATING ACQUIRED SKILLS

In order to assess to what extent your students have acquired new knowledge and skills, and to verify if your course has achieved its goals and learning outcomes, you should create a **"Skills Evaluation Test"** and submit it to your students. If the Covid-19 situation will allow, it is recommended to deliver the final test in class, face-to-face. If this is not possible, please use your usual testing solutions when using distance learning.

To create the test/s, you may use the tools listed in the paragraph above ("Ex ante and ex post self-assessment test"). You may choose among different types of answers or combine them:

- *Multiple choices: trainees have to choose the correct word to complete the sentence*
- *Embedded Answers (Gap Filling): trainees fill the gap to complete the sentence*
- *Matching: trainees must link items from the first column to items in the second*
- *True / False: trainees must decide if a statement is true or false*
- *Numerical: trainees must answer the questions with numbers / percentages*
- *Short Answers: trainees must answer the questions in a synthetic way. Attention! This kind of answer is not recommended for the Self-assessment Test, because the students cannot have a feedback on what they wrote. On the other hand, it is useful to include this type of answer in the Skills Evaluation Test.*

These Guidelines do not provide a template for this test, because each team (composed by teacher, students and company/companies) will build its course on a different topic and on different skills.

FINAL PRESENTATION

In the preparatory phase, teachers will have asked the company to define a small project task related to the company's needs or problems - a task that can be approached and solved thanks to the new skills acquired by the students attending the upskilling course.

Throughout the duration of the course, students will work on the project task and prepare a digital presentation / pitch to be submitted to the company for evaluation by them and by the teachers. We suggest you leave the students free to choose what software or online tool to use for their presentation (e.g. [Prezi](#), [PowerPoint](#), [Google Slides](#), videos, etc.).

According to your local context at the time the final assessment will take place (Covid-19 restrictions, lockdowns, level of commitment of the company, school facilities, etc.), in agreement with the SME/s you are collaborating with, you may choose one from the following options:

1. *Submission of an online presentation to the company who will assess it and provide feedback and evaluation (it can be a grade or a generic comment) afterwards;*

2. *Oral presentation / pitch in front of a representative of the company and teacher in via a virtual meeting - using [Skype](#), [Zoom](#), [GoToMeeting](#), [Google Meet](#) or other platforms;*
3. *Oral presentation / pitch in front of the company representatives AND the whole class, face-to-face in class or at the premises of the company – perhaps at an event that includes all student presentations (we suggest short oral presentations, max. 10 min. each).*

TEACHER'S ASSESSMENT

You should consider the following criteria when assessing your students' presentations:

Ability to respond to the company's needs: Is the content of the presentation tailored and relevant for the company or is it too generic? Has the student addressed all the pain points adequately? Does he/she present a possible solution to the task presented by the company?

Ability to develop a clear, well-structured and informative presentation/ pitch that is compelling and persuasive: Did the presentation tell a story with a clear purpose at the start, clearly defined steps in the middle and a strong close? Was the content coherent and clear? Did the student make an effective use of facts, statistics and details? Were the challenges, solutions and potential risks defined clearly for the audience? Did the student summarise the key points clearly and concisely?

Ability to prepare effective slides that support and strengthen the clarity of the message: Are the slides visually impactful, with graphics, graphs or images? Did the student use other interactive resources such as videos and music? Was the language clear?

Soft skills: During the presentation, did the student appear confident, natural and in control? Has the student collaborated with others (students, parents, other stakeholders) to prepare his task? Was he/she able to respond effectively to questions of the teacher or company during the presentation?

You will find a few templates for the assessment of the students' presentations in Annex I of the Guidelines but remember to adapt these models to your personal school and local context!

COMPANY ASSESSMENT

Companies will assess the project task based on pre-defined criteria, communicated to the teacher and the students when the task is given and explained to the students at the beginning of the course. We suggest you ask the company to provide at least a short, written assessment in order to keep records.

Responsive Projects in Hungary and in Estonia

Realizing that aligning graduates' skills and competences with labour market demands and helping employers to recruit suitably qualified workers are a common interest within vocational training institutes and companies, the partners collaborating in Reacti-VET project have created an upskilling course for teachers to enable them to apply a "demand-driven" approach in their teaching practice.

During the project the partnership piloted both the training program (in Italy, Hungary and Estonia) and the responsive project methodology (in Hungary and Estonia) with relevant stakeholders of vocational education, leaders of schools, teachers, students and local actors in industry. The teachers who took part in the initial upskilling training delivered their own pilot responsive projects to their students, supported by a team of teachers and local companies.

The teachers in the vocational schools contacted relevant business organizations operating in their professional field of education and asked them to collaborate in identifying skills gaps as the first step. They also examined the compliance and relevance of the knowledge and skills they imparted to their graduates against the demands of their future employers. The teachers set up a project team involving their colleagues and students, plus a representative of the company they contracted with for the project. The company assigned a project task to the students, related to the field identified as having existing skill gaps. The knowledge and skills that the students needed to complete their project tasks were assessed through self-evaluation.

Based on the established and agreed criteria, the project team designed a short, extra-curricular mini-course and developed the training material for it. The length of the mini-course was determined to be 10 hours in the form of modules integrated into standard lessons, 15 hours of off-curricular activities, 5 hours used for the selected activity (potentially at the companies' premises) and 1 hour for the final evaluation. The team then implemented the course, including enabling the students to submit their project tasks - which they would eventually present to the company that had entrusted them. In the agreement between the school and the participating business organization, the company defined a project task that the team of students joining the project had to accomplish. The professional fields covered by the pilot projects were:

Business and Management

- Advancing Excel in Accountancy of SMEs²
- Designing a Webshop Solution for SMEs



Pedagogy

- Designing a Project Week on Sustainability for lower-class students



Information Technology

- Managing Cyber Security in SMEs
- Implementation of a Medical Station Website



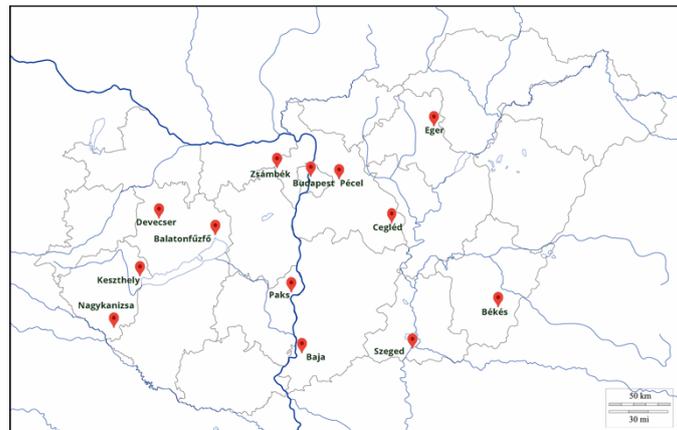
Gardening, Horticulture

- Construction of A Green Wall



² Small and Medium Enterprises

The seven Hungarian project teams presented their work to the public at an online conference, sharing their experiences with 75 participants - the stakeholders of the Hungarian Vocational Education from all parts of the country.



Cities of Hungarian VET schools represented on the closing conference

According to a survey of the conference, 75 % of the participants thought that the information received was of great valuable. 100 percent (!) of the external teachers present said that they would consider taking part in such an experiment if they had the opportunity.

Participants commented on the presented responsive projects as follows:

“Projects were inspirational and high quality.”

“The projects can set an example for other VET schools and employers to follow.”

“It was good to see the enthusiasm of teachers and students. It was visible that they worked with pleasure, even if it meant extra work for them.”

“I’m sure these presentations raised the self-confidence of many participants to try the project method, to change their practices and set out in a new direction.”

FEEDBACK OF TEACHERS, STUDENTS, COMPANIES

Although these experimental mini training courses were off-curricular, their success has been reinforced by the fact that the majority of the vocational training institutions involved have decided to integrate them into their standard curricula. The companies were also satisfied with the project results and stated that they would welcome students from the project team as future employees. Below, we have collected some of the most relevant feedback and opinions received from these different parties.



Teachers, project team leaders about the collaboration

“By collaborating with this company, the school has gained a partner we can work with later on.”

“The project brought teachers working together even closer, we obtained new knowledge, our digital competence and our set of methodological tools developed. We had the opportunity to learn from each other, which we identified as one of the most important added values. Last but not least, the project work also provided an opportunity for professional development for all of us.”

"Teachers in the project have learnt how to organize and carry out a project even in unusual circumstances."

"The school leaders and teachers of other professions also welcomed the project with interest. Many of them have asked for the curriculum to show to their own students."

"The hands-on experience when installing the green wall at the company site was very important. The feedback received there was an important part of the project's objectives. Students experienced their own limitations and capacity."

Teachers, project leaders about their students

"For many students it has become clear that working in a team is never easy, and managing a team is a serious challenge."

"Students could get insight into the operation of a company and they experienced the variety and challenges of practical work."

"Perhaps the most important thing for the students was to acquire practice-oriented knowledge, through a real task given by an employer."

"While delivering the project task, the students enriched their knowledge and developed their digital skills; their attitudes were also changing. All in all, their preparation for their chosen profession has become more conscious."

Students

Students in the project teams felt that the task they were involved in through school was real and relevant, and that it placed them in a real work situation. This will benefit them later when they need to find a job and solve real-world problems that they might otherwise not been faced with. The project will help to dispel any fears that they may have of the unknown and, hence, increase their self-confidence. They will believe that they are truly able to fulfil the requirements of a workplace.

Other students said:

"It gave me the right motivation for the future and ideas for my plans."

"Thank you for the opportunity ... the knowledge we have acquired is already ours and we can apply it confidently."



Partner companies

“The project resulted in a good relationship between the company and the school, the possibility of future joint work is foreseen.”

“Much more information became available for us on the attitudes of graduating students towards work and companies. I, myself, wouldn't have thought that there were such enthusiastic, serious-minded young people either.”

“The vocational school was able to provide its students with a task that was life-like, and that is why students were able to try themselves in areas that they will encounter later in their job.”

“We could get closer to students and we can also use this relationship when recruiting in the future.”

“ The project added value to the company as our service improved and became easier to use for the clients.” (The project aim was to design a website for a healthcare provider.)

“We can see now what knowledge we can realistically expect from a newly graduated and job-seeking employee in the indicated area when hiring. I would definitely recommend this form of cooperation to other VET schools and employers because it can help build a living relationship between them.”

RESPONSIVE PROJECTS IN NUMBERS

Number of vocational schools involved: 6 (HU), 1 (EE)

Number of VET teachers and managers involved in the responsive projects: 29 (HU), 11 (EE)

Number of VET students directly involved in the responsive projects: 87 (HU), 36 (EE)

Number of companies involved in the responsive collaboration: 7 (HU), 2 (EE)

Annex

TEMPLATE N. 1

STUDENT UPSKILLING COURSE “TITLE”	
Presentation Evaluation Form - Teacher	
Please rate the presenter by circling the appropriate number. 1= very poor and 10 = excellent	
Teacher name: _____	
Name of the school: _____	
City, Country: _____	
Topic: _____	
Student Name: _____	
Presentation Content	
The introduction provided a general description of the topic, including the approach and expectations of the talk	1 2 3 4 5 6 7 8 9 10
The presentation provided thoughtful comparisons and analyses	1 2 3 4 5 6 7 8 9 10
There was a clear summary and conclusions	1 2 3 4 5 6 7 8 9 10
Overall quality of visuals (pictures, charts overheads, diagrams, etc.)	1 2 3 4 5 6 7 8 9 10
Presentation Mechanics	
An appropriate amount of material was presented	1 2 3 4 5 6 7 8 9 10
The presentation was well-organized	1 2 3 4 5 6 7 8 9 10
The presentation was professionally delivered	1 2 3 4 5 6 7 8 9 10
The presentation was done within the given time limit	1 2 3 4 5 6 7 8 9 10
The presenter responded well to questions	1 2 3 4 5 6 7 8 9 10
Overall Evaluation	
My overall rating of this presentation is	1 2 3 4 5 6 7 8 9 10
Strong points of the presentation were . . . [max 5 lines]	
The presentation could have been improved most by . . . [max 5 lines]	

The grading system can be changed accordingly to your school customs. It can be numeric (1-10 or 1-5), percentage Grading (from 0 to 100 %), letter grading and variations (from A to F), Pass/Fail, Narrative grading, etc.

TEMPLATE N.2

STUDENT UPSKILLING COURSE "TITLE"

Presentation Evaluation Form - Teacher

Teacher name: _____

Name of the school: _____

City, Country: _____

Topic: _____

Student Name: _____

Please mark the score for each evaluation criterion below. When you are finished, combine the total points at the bottom for the overall score.

Poor	Fair	Average	Good	Excellent
1	2	3	4	5

CONTENT					
Clarity of content	1	2	3	4	5
Quality of content (background, methodology, findings, etc.)	1	2	3	4	5
Originality and complexity of project	1	2	3	4	5
Relevance of the presentation for the needs of the company	1	2	3	4	5
Visual impact of the slides (use of graphics, charts, images)	1	2	3	4	5

Comments on Content:

Content Points = ____ / 25

DELIVERY					
Professional and confident	1	2	3	4	5
Engaged with audience	1	2	3	4	5
Capacity to respond to questions	1	2	3	4	5
Clear voice with good pace	1	2	3	4	5

Comments on Delivery:

Content Points = ____ / 20

OVERALL IMPRESSION					
	1	2	3	4	5

Overall comments:

Overall impression Points = ____ / 5

TOTAL POINTS = ____ / 50

ALIGNING VOCATIONAL EDUCATIONAL WITH LABOUR MARKET NEEDS

It is in our common interest to align graduate skills and competences closer to the labour market, to make it easier for employers to find suitably qualified workers, and to avoid graduates facing shortcomings in their first job. The ongoing transformation of vocational education and training (VET) is responding to the challenges by adopting a "demand-driven" approach, but this requires the active involvement of teachers.

Launched in 2018, the [Reacti-VET](#) Erasmus+ project aims to equip VET teachers with effective digital tools and new ways of responding quickly to the demands of the labour market. Teachers should *not only participate in developing a 21st century VET culture of greater creativity, but can also be co-creators of that culture.*

Do you believe that it is **difficult to keep up with the ever-changing demands of the labour market**, that traditional teaching methods are often unsuitable, and textbooks frequently outdated?

Would you like to join an international team-based, VET experiment along with your colleagues and students?

What does the training offer?	What effort does it require?
<ul style="list-style-type: none"> <input checked="" type="checkbox"/> A change in attitude and practical methodologies; <input checked="" type="checkbox"/> Facilitating involvement of companies and other external stakeholders, expanding the professional network; <input checked="" type="checkbox"/> Enriching the professional portfolio: experience of a collaborative international experiment; <input checked="" type="checkbox"/> Project approaches in the classroom and at school level; <input checked="" type="checkbox"/> Expanding the range of digital tools used for pedagogical purposes; <input checked="" type="checkbox"/> 30 credit points in the Teacher further education system 	<p>Corresponding to 30 contact hours, the training can be completed in an online learning environment in 5-6 weeks, with 5-6 hours per week study with the support from trained mentors.</p> <p>Mentors facilitate communication among participants, encouraging peer learning. Teachers from the same institute can perform most of the assignments with groups of two or three.</p>

After completing the course, participants will have the opportunity to engage in a jointly designed experiment in close cooperation with employers, teaching staff and students. They can implement what they have learnt and develop, organize and deliver an upskilling course for their own students (over one semester, maximum 30 hours). The upskilling mini-course is aimed at filling the knowledge and skill gaps, as defined by the labour market, exploiting modern pedagogical methods and the potential of digital technologies.

The Training Topics

<p>Module 1 - The networked 21st century school The opportunities for, and responsibilities of, teachers in networking; digital tools for external and internal communication; data collection and data analysis</p>
<p>Module 2 - Active learning with digital devices Practical application of collaborative, active teaching-learning methods, supported by digital tools.</p>
<p>Module 3 - Free digital tools, Open Educational Resources Integration of freely available learning resources into the teaching of professional and general subjects; joint curriculum development with stakeholders</p>
<p>Module 4 – The Virtual Classroom Basics of course design, utilizing virtual classroom services.</p>
<p>Module 5 – Planning and delivery of projects using digital devices Project-based approach in the development of basic skills, as required by the 4th Industrial Revolution Labour Market (Communication, Collaboration, Creativity, Critical Thinking); design and implementation of pedagogical and development projects using digital tools</p>

ABOUT THE PROJECT

Teachers for Reactive and Responsive Vocational Education

PROJECT BACKGROUND

VET schools simultaneously have to meet two opposing requirements: to remain true to tradition, delivering stable, tested knowledge approved by relevant parties in society and the economy; and to equip students with a set of skills and competencies relevant to newly emerging demands.

Despite great efforts by national and European policy makers to drive VET schools into 'rethinking' their curricula and teaching methods, changes have been slow to keep up with labour market requirements. In most European countries VET qualifications are based on standard curricula that precisely define what is taught, leaving little freedom for teachers and schools to train for just-in-time labour market demands. Most systems also have lengthy and complex accreditation procedures, so the approval of a new curriculum - or even the modification of an existing one – can take a long time.

AIMS AND OBJECTIVES

The project aims to provide effective and necessary training and support for VET teachers to enable them to identify and respond to skill-gaps in the labour market, but also involving other relevant stakeholders - students, parents, teaching staff, and particularly employers experiencing difficulties finding skilled workers to fill vacancies. The consortium will develop, test and deliver standardized, comprehensive toolkits packaged as a set of teaching, collaboration, and communication methods and a rapid curriculum development methodology for VET teachers, to be used in conjunction with potential employers to identify skill-gaps, and to design, develop and deliver up-skilling training for students. The toolkit will be tested within the IT sector, but the standardized version will be equally applicable to other vocational education subjects.

TARGET GROUP

Teachers and trainers in Vocational Education

Beneficiaries: VET students, industrial partners, companies

PROJECT BASICS

Title:	Teachers for Reactive and Responsive Vocational Education
Acronym:	Reacti-VET
Program:	Erasmus+ KA2
Project type:	Strategic partnership
Participant countries:	Hungary, United Kingdom, Estonia, Italy
Duration:	1 September 2018- 28 February 2021
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PROJECT PARTNERS

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Fondazione ITS per le nuove tecnologie del Made in Italy – JobsAcademy (Italy)

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CAPDM (United Kingdom)