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Methodology and mechanism for building HR staff competencies to support OI competencies development

Initial Capacitation Methodology

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Title and acronym: OI Competences for Responding to Modern Economic Challenges [OPI]

Project type: Erasmus+ KA2 Project, Strategic Partnership for Adult Education

Ref. no.: 2020-1-RO01-KA204-080196

Coordinator: University of Pitești, Romania

Duration: 01/11/2020 to 31/10/2022

Total project grant: 218,081 Euro

Project Website: www.opi-project.eu

Deliverable Number & Name: IO2 Methodology and mechanism for building HR staff

competencies to support OI competencies development

Date of Delivery:

Responsible partner: University of Pitesti

Versions	Issue date	Stage	Contributor
1	12.08.2021	Draft	Georgeta Chirleşan
2	14.08.2021	Final	Georgeta Chirleşan
3	1.09.2021	Final revised	Georgeta Chirleşan
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1. Introduction

Engaging individuals in overcoming skills mismatch and adjusting their competencies to realistic market requirements, especially in case of new areas not covered by traditional educational systems, requires engagement of intermediaries such as employers, HR specialists, employment consultants in building awareness of the new market requirements, direct them toward proper development path and providing guidance and motivation to invest their time and efforts into the learning process (EIB 2019).

Combating skills mismatch issues requires, next to education and training, fostering efficient relocation of skills and jobs by collaborative efforts of job market stakeholders - proactive enterprises, HR agents, employment offices, development organisations, adult educators etc. (Cedefop 2018). From one side, putting themselves in skills mismatch situation can be a result of job seekers poor career choices related with lack or ill-information about job prospects with the best returns on their human capital investment, i.e. lack of information regarding OI as a possible carrier direction. From the other, in terms of the types of jobs currently at the highest risk of layoffs (i.e. due to automation), workers in these jobs were also reported as groups less likely to invest in training and often having limited access to it (Nedelkoska & Quintini 2018).

Therefore, ensuring access to high quality career guidance and support in the area and, in the first place, information about employment prospects in the area, are paramount to fill the gap and allow job seekers and enterprises benefit from it (Cedefop 2018).

Thus, to be able to support the job seekers and employees in engaging in and developing their capacities for open innovation, intermediaries need to be capable to identify critical open innovation mechanisms and competences, be able to spot potential for requalification and opportunities in open innovation areas and encourage and guide individuals through proper upskilling process (EIB 2018). Especially taking into account commonly highly limited understanding of innovation and especially Open Innovation and multiple misconceptions in the area, it is critical to capacitate this professional group to be able to clearly communicate opportunities in the areas, clarify possible misconceptions and guide the job seekers and employees in their development.

For this, OPI project is providing a comprehensive set of labour market-oriented solutions, starting with capacitation of HR professionals in SMEs and providing required labour market and competence intelligence among the talent management professionals.

This specific document represents the Capacitation Methodology developed by OPI consortium in the view of helping HR professionals in SMEs to acquire the necessary competencies to support OI competencies development.

The Capacitation Methodology includes a detailed *training curriculum*, based on which these competencies will be acquired.

The *training curriculum* provides:





- the training objectives (general and specific) envisaged in relation to the OI training of HR professionals
- the training themes and sessions
- the Learning Outcomes that the trainees will achieve at the end of the training
- the delivery plan (meaning the training themes and allocated delivery hours)
- the assessment methods & techniques for the validation of LOs achievement.

In the next phase of the OPI project's implementation, the present methodology and training curriculum will be used by UPIT and E&D partner organisations as a sound basis for developing the specific training content.

2. Needs Assessment: identification of required skills

The needs assessment to identify required skills to be included in this Capacitation Methodology and curriculum for HR experts has been achieved through:

- Desk research (literature review)
- Focus Group with stakeholders

both being activities implemented by all project consortium member organisations in their countries.

All partner organisations have then issued national desk and field-based research reports, from whose compilation and interpretation of results the present methodology was elaborated.

The national research reports are available on project intranet.

The main findings from national research are presented below.



	Romania	Portugal	Spain	Poland	Austria
Literature review	- hard skills (e.g. developing	- integrating technical skills,	- skills for using innovation	- outsourcing talents	- introspective skills related
	a project, examine	with social capital and	in technology: ability to use	- upskilling	to the organisation's
	technology)	interactive competencies	new technology specific for	- providing training in terms	assessment of
	- soft skills (personal traits,	- specific skills for managing	HR field (ATS - Applicant	of HR management	opportunities from inside;
	attitudes and interpersonal	networks and partnerships	Tracking System; CRM -	- seeking external ideas for	- extrospective skills related
	abilities) (more important	- ability to work with	Customer Interaction	introducing innovation	to the organisation's
	for OI than hard skills!)	different professional	Management; NPS –	- digital competencies that	assessment of
	- Interpersonal	communities	employee NET Promoter	stand for innovation and	opportunities from outside;
	management skills	- ability to work in	Score; Google's G-suit, etc.)	especially OI	- interactive skills that
	- Project management skills	interdisciplinary	- Big Data management	- introduction of	convey the value, internally
	- Content management	environment	skills	mechanisms changing the	and externally, of relations
	skills	- ability to work in cross-		workforce	with the world outside the
	- Self-management skills	functional teams		- new communication	organisation;
	(the most important!)	- managing inter-		methods	- technical skills,
	- skills for recruitment	organisational collaboration		- flexibility connected with	encompassing all the
	strategy and workforce	processes		the readiness to change	technical, management and
	planning	- networking skills		(implied as an innovation	business skills needed to
		- adaptability and flexibility		paradigm)	support the first three
		- ability to share knowledge		- sense of inquisitiveness	categories.
		and ideas internally within		and strive to commit to	- self-management (seen as
		organization		practicing research as a	the basis for achieving the
		- ability to share knowledge		regular activity	central tasks related to OI);
		and ideas externally		- creativity	- interpersonal
		- communication skills		- problem-solving	management (essential for
		- cultural awareness			managing inter-
		- personal attributes			organisational
		(motivation, sociability, a			collaboration);
		techno-business mindset,			- project management
		systems thinking)			(essential for managing the
					overall innovation process);
					and



Romania	Portugal	Spain	Poland	Austria
				- content management
				(essential for creating new
				knowledge collaboratively)
				- professional competencies
				- methodic competencies
				- social competencies
				- personal competencies
				- specific OI skills: IP
				management; Negotiation;
				Entrepreneurship;
				Leadership; Team-working;
				Multi-tasking; Problem-
				solving; Virtual
				collaboration; Internal
				collaboration; External
				collaboration; Trust;
				Communication;
				networking
				- specific OI <u>abilities</u> :
				Technology & business
				mindset; Project
				management; Adaptability
				and flexibility; Managing
				inter-organisational
				collaboration processes;
				Ability to work in
				interdisciplinary;
				environment; Ability to
				work in cross-functional
				teams; Strategic thinking;
				Creativity; New media
				literacy; Cultural
				awareness; Ability to work



	Romania	Portugal	Spain	Poland	Austria
Best practice	- Ability to start innovative	Part of those from above	- mastering specific	- design thinking (the	with different professional communities; Ability to share knowledge; Risk awareness; Failure tolerance - "connect and develop"
Best practice examples	- Ability to start innovative projects - ability to identify global challenges - skills for searching for innovative ideas and solutions for specific problems - clear and concise communication skills - skills of using correctly the verbal and nonverbal communication - spirit of initiative - innovation abilities - thinking "outside the box" skills - self-motivation	plus: - specific interpersonal and intrapersonal competencies (i.e. self-management or interpersonal management) - mindset and alignment with future organizational strategy and values - being able to apply proper tools and mechanism to align the candidate's (or contracted human resources) specific interpersonal and intrapersonal competencies with the company's sustainable innovation strategy - ability to guide human resources through requalification toward the	- mastering specific strategies for candidates' selection (e.g. studying the applicant's cultural background, focusing on employee's talents) - training workers' specific abilities (one of the finest procedures to motivate staff!) - transparency - providing to the applicant a compelling incentive - creating a link between talent and technology (to keep pace with technology advancement) - creating a safe atmosphere - altering and streamlining the hiring processes (when searching for high	- design thinking (the process to the employees or persons involved — how they should look at problems and what attitude to take towards solutions) - team-working - Corporate Social Responsibility (CSR) (.g. using the You Grow talent management project) - digital competences - talent management - mentoring - creative thinking (e.g. using a laboratory with a pitch room, creative rooms and hosing candidates' interviewees too) - flexibility - openness to change	- "connect and develop" strategy (the mindset shift from "not invented here" to "proudly found elsewhere", the creation and management of partnerships, the multidisciplinarity) creation of an internal innovative mindset - trust building - coaching - exchanging good practices - fostering interorganisational collaboration - (structured) upskilling / reskilling - awareness building
		OI positions, based on: 1/ building their awareness of OI and OI competencies relevance for modern economy	achievers) - training candidates (one of the best ways to improve an enterprise; student internship program is one		



Romania	Portugal	Spain	Poland	Austria
	2/ building their ability to	of the finest ways to train		
	identify critical OI	staff)		
	mechanisms and	- creating an environment		
	competencies,	that encourages the		
	3/ building their ability to	interchange of ideas and		
	spot potential for	information (transparency -		
	requalification based on	a must-have company skill)		
	analysis of individual	- implementing 'people		
	abilities, especially the	management practices'		
	inherent and acquired ones,	- open communication		
	4/ ability to motivate and	- selecting candidates		
	ensure efficient	motivated by contextual		
	engagement of individuals	knowledge and devoted		
	in building their OI			
	capacities.			

In all partner countries, in addition to desk research, Focus Groups (FGs) have been implemented in the aim of the IO2, either online via Skype or Zoom (Romania, Portugal, Spain and Poland) or face-to-face (Austria).

Demographics of HR staffs participating in the FGs are summarised in the table below:

	Rom	ania	Porti	ıgal	Sp	ain	Pol	and	Aus	tria
No. of participants	2	1	2		2	4	4	4	4	4
Gender split	1 F	3 M	2 F	-	1 F	3 M	-	4 M	Not specified	Not specified
Age (years)	38, 3	6, 49	Appro	x. 45	52, 33,	54, 42	-		28, 45,	51, 32
Years of experience as HR	5, 10,	25, 10	Hu _i experi	_	Not sp	ecified	Ove	er 20	Not sp	ecified
Field of activity of the HR professionals (incl. HR recruiters)	- produce plastic compone for cars - car manufar - technic checks a services trucks a other verand professi appliant produce	cturing cal and for nd ehicles nold onal	- nation public employs and VET agency	ment	- superr commer - bankin sector - pharma busines: - refrige facilities	rce g ceutical s ration	IT - IT con - start-u	ement / npany up icing ialytical ns to ropean	- Start-Up, connected externals - large cor IT sector - Austrian Economic - Training	l with npany in Federal Chamber

Main findings from FGs are rendered below.

Being familiar with OI concept:

Romania

Most of the participants are not familiar with the OI term, however they consider that in the activity they carry out, innovative competencies and skills are needed in order to be able to add value to the tasks to be performed.

Portugal

The OI term and concept is not familiar to the participants. It makes them think about novelty and "something different" in terms of how companies operate and innovate. It also makes them think about a "change of mindset at top management level".

Spain

OI is a new way to understand new strategies regarding enterprises development and their way of work. This means matching internal and external expertise to drive strategy and R&D projects forward.

Poland

Most of the participants are not familiar with the OI term, however, they understand that it is about the integration and application of internal and external ideas, as well as the processes of implementing innovations to the market.





Austria

The OI term and concept is familiar to all participants. They think about "opening the company's R&D to others". Focus seems to be more on the development part (might be due to the selection of candidates which all have limited "research").

Relevance of OI for modern economy:

Romania

At the level of management positions, new knowledge and the update of high-performance information and software are constantly needed, while for other employees, the need for such competencies is strictly related to the job profile and work requirements.

Portugal

High relevance for the competitiveness of companies in the modern economy. Based on the previous reflexions, participants believe that there might be a need of a certain level of readiness (from people looking for jobs) to undertake a training in OI. Yet, it all needs to start with the company management.

Spain

OI competences are crucial for modern economy.

Poland

The development of innovative competences is a key activity in the new approach to education, presented in the lifelong learning strategy.

<u>Austria</u>

All participants underline the importance today and see increasing importance for the future.

Types of OI-related skills required from the interviewees searching for <u>employment</u>: Romania

For the execution functions are required competencies and practical skills: teamwork, taking over new tasks, adaptability, flexibility. For management functions are required communication skills and teamwork, collaboration and openness to innovation and application of new software and knowledge, collaboration with people with different expertise, adaptability, establishing team connections.

Portugal

The set of soft skills of candidates. This can be seen according two perspectives: 1/ the pool of soft skills the IEFP technician identifies in each candidate, 2/the pool of soft skills the technician would like to find. Among the majority of job candidates with whom IEFP works there's still lack of these soft skills.

Spain

- Creative and innovation skills.
- Absorptive capacity.
- Feel like constant learning.

<u>Poland</u>

- self-development and continuous learning;
- creative thinking;
- problem solving skills;
- all abilities related to communication!





Austria

- Soft skills are more important than hard skills, especially in this area. Especially skills in leading / working in groups, open communication and creativity are often missing.
- We need to train people from the very beginning to be able to work in groups.

News skills relevant for HR staffs in relation to the recruitment criteria and process: Romania

The most needed are: collaboration with people with different types of expertise, ability to work in multifunctional teams, collaboration to develop new products or ideas, availability to work on different projects and availability to establish connections with people from other companies or organizations, good communication skills (to collaborate in a team and to take on tasks in the development of new products and technologies).

Spain

OI skills.

Ability to work across various projects.

Teamwork skills.

Poland

Good communication skills (as it is the basis of all entrepreneurship and, of course, innovation processes).

The most important/relevant skill for OI competencies development:

Romania

Flexibility and adaptability.

Portugal

Communication is considered a crucial skill – to be a good communicator and to be able to interact with others.

Sociability (networking, ability to communicate and interact, etc.) and open mind for new learning (including the openness for long life learning.

Spain

being able to work across various projects.

Poland

Good interpersonal skills (are especially important in IT, where the success of a project is usually determined by a well-coordinated team, not even outstanding individuals) / working in team not individually.

<u>Austria</u>

- communication
- team work.
- open mind set
- adaptability
- availability to learn
- share knowledge and experiences

Other important OI-related skills in the recruitment process:

Romania





Basic professional knowledge in line with the intended job are important, as professional training follows to be provided after hiring, at the workplace.

Portugal

Adaptability, availability to learn, availability and open mind to learn and share knowledge & experiences and team work.

Poland

- Willingness to learn and develop
- Openness to change
- Knowledge transfer
- Ability to accept criticism
- Independence
- Confidence
- Motivation to work and commitment
- Initiative

Individual abilities used in analysing the staff's requalification potential:

Romania

Adaptability and the desire to show openness for learning new things.

Portugal

The openness to change (e.g. to be open to skills requalification, and acquisition of new learning) – to be open to abandon comfort zones with no fear for the change.

Spain

Absorptive capacity of individual.

Poland

The ones mentioned at the above question.

<u>Austria</u>

- New requalification paths are one important topic.
- OI skills should also be trained in school and dual education.
- Creativity is generally not trained enough.
- The participants had different opinions on the use of psychological tests agreed that interview is most important.

Methods and tools applied to analyse the staff's requalification potential:

Romania

Modelling and simulation tools for structures and work teams are currently used.

Portugal

The only method used is interview. Other tools such as motivation test had previously been used but are, currently, no longer in use.

Spain

Analysing the willingness to learn of the candidates.

Training (new skills can be also identified during the training process).

Poland

There no methods and techniques in use to access OI competences. According to the participants everything is based on the intuition and strength of experience of HR.

Austria

- still too unstructured
- clear guidelines are missing





- participants from industry did not know about the national OI strategy
- currently different problems on the labour market (COVID related)
- not all sectors have the same importance OI more in IT and R&D companies, less in e.g. gastronomy and tourism. But the mentioned soft skills are also important there.

Identification of critical OI mechanisms and competencies by HR staff:

Romania

So far there is no mechanism in place at the interviewed organisations for identifying OI competencies.

Portugal

There no methods, approaches or techniques in use to access OI competences.

Spain

The ability to create visionaries who are open to new innovation ideas, implementing risk - reward policies and having an external focus for skills.

Current practical means to motivate and guide the individuals needing <u>requalification</u> or <u>job seekers</u>, in the view of building their OI capacities:

Romania

The trainings are done internally with their own specialists; unfortunately, companies do not address their training needs to universities, even if there are complex training programs offered by university training centres.

<u>Portugal</u>

Within IEFP there are some mandatory training sessions that candidates need to attend that already address some skills development (eg, Entrepreneurial competences and Communication training courses).

Spain

At the moment we do not know the practical means for this.

Poland

Unfortunately, at the moment participants do not know the practical means to motivate and guide the individuals.

Best solutions to provide advice and career guidance to unemployed or at-risk adults, with a view to improving their skills in the field of OI:

Romania

Multidisciplinary training programs, which offer also communication skills in addition to specific professional skills, but especially skills that prepare the employee, from a psychological point of view, to cope with technological change, implicitly developing the OI component.

Portugal

More appealing training course, leading people to think about their own soft skills and competences. Attractive and "light" contents (in opposition to theorical contents). Activities promoting interaction between trainers and trainees.

Spain

Training in OI is fundamental, in this case even more so, as it is a discipline that not everyone is familiar with.

Poland





The most common response was an interactive learning tool, preferably for self-study Austria

Show them how it will improve their employability.

The most useful topics that should be addressed in a course for HR staffs about OI skills and development of OI competencies:

Romania

Communication, Personal presentation, Motivation, Teamwork, Stress management at workplace, Management of change.

Portugal

Awareness raising for the topic of OI and its relevance for HR professionals.

Leadership and management.

Participants consider that is crucial, for the success and impact of a training course, the recognition of its value by the company management.

Spain

Building risk and reward policies, use of training material for HR staff and managing emotional intelligence to apply it to candidates' needs.

Poland

- Willingness to learn and develop
- Openness to change
- Knowledge transfer
- Ability to accept criticism
- Independence
- Confidence
- Motivation to work and commitment
- Initiative

Recommendations to the OPI Project consortium:

Romania

Universities should provide training programs, conducted with qualified staff, through HR offices, to implement solutions to develop OI skills to employees.

Portuga

The change and awareness must start at the level of the top management. The importance of OI skills must be, first, recognized by the top management in order to recognize the value of these skills among job candidates.

On the other side, change can also be promoted, inside a company, by HR owning OI skills.

<u>Austria</u>

- change management
- facilitator skills
- link to sustainable development





3. Curriculum for building HR staff competencies to support OI competencies development

3.1. Objectives

Based on the findings obtained from research, we could formulate the following learning/training objectives for HR professionals in relation to OI competencies development:

	Sp	ecific Objectives (SC	Os)	
General Objectives				
(GOs)		T		
G.O.1. Building	S.O.1.1.	S.O.1.2.		
awareness of OI and OI	Emphasizing the	Promoting active		
competencies	necessity of OI	attitude towards		
relevance for modern	competencies for	including OI		
economy	modern economy	competencies at		
		work place		
G.O.2. Achieving the	S.O.2.1.	S.O.2.2.		
ability to identify	Showcasing	Presenting and		
critical OI mechanisms	competencies	describing		
and competencies	that are critical	methods and		
	for OI	tools to identify		
		critical OI		
		mechanisms and		
		competencies		
G.O.3. Developing skills	S.O.3.1.	S.O.3.2. Analysing	S.O.3.3. Shaping	
for identifying	Endowment with	and mapping the	individual	
employees'/candidates'	specific psycho-	identified	requalification	
requalification	sociological tools	individual skills in	pathways	
potential	and methods for	relation to the		
	identifying	employee's		
	employees'	requalification		
	individual	potential		
	abilities			
G.O.4. Developing skills	S.O.4.1.	S.O.4.2. Adapting	S.O.4.3. Guiding	
to motivate and guide	Showcasing	motivational	the employees in	
employees during	effective	approaches to	building their OI	
building their OI	motivational	the specificity of	capacities based	
capacities	techniques and	employees and to	on specific	
	tools	job profile	individual needs	





3.2. Training themes and sessions

The IO2 training for HR staffs to acquire the necessary competencies to support OI competencies development will take form of highly practical asynchronous e-learning solution and will be integrated into the OPI project e-learning platform in the specific section targeted to HR staffs.

The IO2 training will have a total duration of **48 hours**, of which **16 hours** of self-directed learning via the OPI online platform and **32 hours** for further reading.

As shown above, trainees will be HR professionals, meaning professionals with realistic impact on the career guidance/decisions of the adults in need for/high potential for upskilling for OI positions. That will include employees of HR agencies, employment offices, but also Job market supporting NGOs, and internal company staff related with training/upskilling decisions and guidance.

The IO2 training curriculum will be tested via the e-platform of the project in the framework of Intellectual Outcome no. 6 "OPI online platform", by 15 pilot users in each partner country.

The training modules as presented in the application and the <u>indicative</u> topics as identified from the desk and based research (highly compatible with the application) are the following¹:

1. Building awareness of SMEs on Open Innovation and Open Innovation competencies for modern economy

- Open Innovation: definition, conceptual delimitations and characteristics (S.O.1.1.)
- Why Open Innovation? (OI benefits/advantages for SMEs and the need for OI for modern economy) (S.O.1.1.)
- Challenges and barriers of Open Innovation (S.O.1.1.)
- How to apply Open Innovation in SMEs? (OI framework/methods) (S.O.1.1.)
- How to promote OI competencies at workplace (creating a modern workplace through OI culture) (S.O.1.2.)

2. Ability to identify Open Innovation mechanisms and competencies

- Individual skills in support of OI (S.O.2.1.)
 - 1. Willingness to learn and develop
 - 2. Openness to change
 - 3. Knowledge transfer skills
 - 4. Ability to accept criticism
 - 5. Autonomy
 - 6. Trust and self-confidence
 - 7. Motivation to work and commitment
 - 8. Spirit of initiative

¹ Between brackets, we emphasized the correlation of the topics with the training Specific Objectives.





- 9. Failure tolerance
- 10. Creativity
- 11. New Media Literacy
- Risk awareness
- 13. Entrepreneurial skills.
- Professional competencies in support of OI (S.O.2.1.)
 - 1. Self-management (e.g. organization; goal setting; time management; self-motivation; stress management; accountability; self-protection; self-care).
 - 2. Interpersonal management (e.g. 1. Cultural awareness; 2. Ability to work with different professional communities; 3. Ability to share knowledge and ideas internally/within an organisation; 4. Ability to share knowledge and ideas externally; 5. Ability to work in an interdisciplinary environment; 6. Ability to work in internal cross-functional teams, including team working skills; 7. Communication skills; 8. Networking skills; 9. Adaptability and flexibility; 10. Managing inter-organisational collaboration processes; 11. Innovative team work (Multi-tasking skills, Problem solving skills); 12. Leadership skills; 13. Trust-building skills; 14. Innovation process competency; 15. Negotiation skills; 16. Technology and business mindset)
 - 3. Project management (e.g. <u>Methodical skills and competencies</u> (strategic thinking, knowledge and experience in the field of project management, organizational skills, knowledge of project management tools, etc.); <u>Specialty skills and competencies</u> (competency in the basic activity of a project, general knowledge about the projects' content, etc.); <u>Social skills</u> (leadership experience, teamwork skills, communication skills, ability to motivate staff, ability to resolve conflicts, loyalty and honesty, critical thinking, incorruptibility, etc.); <u>Personal, communication and relational skills</u> (communication skills, public presentation skills, moderation, creativity, integrity, self-confidence, etc.; <u>Other specific skills</u> (digital skills to manage digital tools for project management; risk management skills, quality management skills)).
 - 4. Content management (e.g. information and data organization, creation, storage, workflow, editing/versioning, publishing, removal/archives but also IP management skills and Enterprise Content Management skills)
- Scales for OI competencies measurement (S.O.2.2.)
- Competency Models for OI and areas of expertise/processes (S.O.2.2.)
- How to develop a Competency Model for OI (S.O.2.2.)

3. How to spot potential for requalification based on individual abilities, especially inherent ones

• Psycho-sociological tools and methods for identifying employees' individual abilities (i.e. Myers-Briggs personality tests, 'Curiosity Profile' test,





'Are You in Danger of Becoming Obsolete?' assessment, 'A Tool to Help You Reach Your Goals in 4 Steps', 'Is it time to rethink your career', etc.) (O.S.3.1.)

- Skills audits: tools to identify talent (European Commission) (S.O.3.1.)
 - 1. Skills audits supporting self-development of the individual
 - 2. Skills audits supporting educational advancement of those wishing to (re)integrate education and training
 - 3. Skills audits supporting labour market integration of those outside employment or in transition
 - 4. Skills audits supporting talent management within an organisation
 - Skills needs identification: why and how (S.O.3.2.)
 - 1. Skills anticipation
 - 2. Skills mismatches
 - 3. Matching
 - 4. Measures to gauge the existence of skills mismatches (e.g. skills gap analysis, models for competency mapping and measurement, surveys of employers and individuals, job evaluation studies, etc.)
 - How to create requalification pathways for employees: input factors and practical ways to do it (S.O.3.3.)

4. Motivating and guiding individuals through building Open Innovation capacities

- Motivational techniques for the workplace: types and examples (S.O.4.1.)
- Employee motivation tools (i.e. TINYpulse, Kudos, HighGround, etc.) (S.O.4.1.)
- How to tailor motivation approach to meet employees' individual needs and have a motivation strategy (S.O.4.2.)
- Advices to implementing OI approach in your organisation (S.O.4.3.)
- Supporting and guiding team members to come up with innovative problem solutions (S.O.4.3.)



3.3. Learning Outcomes Matrix

At the end of the training, the trainees should be able to:

Learning Outcomes ² →			
Modules Ψ	KNOWLEDGE	SKILLS	COMPETENCIES
Modules Module 1 Building awareness of Open Innovation and Open Innovation competencies for modern economy	K.1.1. Define OI	SKILLS S.1.1. Compare/contrast 'closed' and 'open innovation' S.1.2. Categorise and explain types of OI based on levels of inclusion and purpose of use S.1.3. Provide examples of OI S.1.4. Justify the need for OI for modern economy S.1.5. Argue the benefits/advantages of OI S.1.6. Discuss challenges and barriers of OI S.1.7. Express the six principles of OI	C.1.1. Act independently when applying OI methods C.1.2. Assume responsibility for creating a modern workplace through OI culture
		S.1.8. Indicate strategies to support OI	

² We use the following colour code:

[•] In red: LOs for learning/training S.O.1s

[•] In green: LOs for learning/training S.O.2s

[•] In blue: LOs for learning/training S.O.3s



Learning Outcomes ² →			
Modules Ψ	KNOWLEDGE	SKILLS	COMPETENCIES
		S.1.9. Present the steps of the	
		process for selecting the right OI	
		method	
		S.1.10. Outline the steps to	
		promote a culture of OI and	
		creativity at workplace	
		S.1.11. Suggest own ways to	
		promote OI competencies at	
		workplace to generate OI culture	
Module 2	K.2.1. List the individual skills in	S.2.1. Classify individual skills in	C.2.1. Instruct trainees to acquire
Ability to identify Open Innovation	support of OI	support of OI based on different	individual skills in support of OI
mechanisms and competencies	K.2.2. List the professional	criteria (e.g. introspective,	C.2.2. Instruct trainees to acquire
	competencies in support of OI	extrospective, interactive and technical)	professional competencies in
	K.2.3. Describe the approach for	S.2.2. Clarify the	support of OI
	developing a competency model	meaning/significance of the skills	C.2.3. Assume responsibility for
	for OI	in each category (e.g. 'are	implementing Competency
	K.2.4. Provide examples of	communication skills that convey the value of any relationship with the	Model(s) for OI
	Competency Models for OI	external world to both internal and	C.2.4. Assume responsibility in
	K.2.5. Recognize scales for OI	external participants')	applying (own) scales for OI
	competencies measurement	S.2.3. Justify	competencies measurement
	K.2.6. Select scales for OI	usefulness/applicability of	
	competencies measurement	individual skills in support of OI	
	appropriate to own organisation	S.2.4. Describe the professional	
		competencies in support of OI	
		S.2.5. Justify the practical	
		usefulness/applicability of	



Learning Outcomes ² →			
Modules Ψ	KNOWLEDGE	SKILLS	COMPETENCIES
		professional competencies in support of OI	
		S.2.6. Generate own scales for OI competencies measurement S.2.7. Efficiently apply (own) scales for OI competencies measurement S.2.8. Interpret/analyse results of	
		scales for OI competencies measurement	
Module 3 How to spot potential for requalification based on individual abilities, especially inherent ones	K.3.1. Know about the existence of psycho-sociological tools and methods for identifying employees' individual abilities and name such tools K.3.2. Categorise skills envisaged for skills audits K.3.3. Describe the stages of skills need identification (e.g. skills anticipation; skills mismatches; matching) K.3.4. Present the major factors influencing the employees' requalification	S.3.1. Judge the suitability of psycho-sociological tools to own workplace context S.3.2. Transform psychosociological tools and methods to fit own workplace context S.3.3. Develop new (customized) psychosociological tools to assess employees' requalification potential S.3.4. Plan and organise skills audits to identify talent for OI S.3.5. Practice skills needs identification in own organisation S.3.6. Substantiate the need for	C.3.1. Act independently when applying measures to gauge the existence of skills mismatches C.3.2. Monitor work processes for skills needs identification C.3.3. Assume responsibility in shaping and implementing individual requalification pathways for employees



Learning Outcomes ² →			
Modules Ψ	KNOWLEDGE	SKILLS	COMPETENCIES
		S.3.7. Describe measures to	
		gauge the existence of skills	
		mismatches	
		S.3.8. Use/apply measures to	
		gauge the existence of skills	
		mismatches	
		S.3.9. Describe practical ways for	
		creating requalification pathways	
		for employees	
		S.3.10. Analyse the identified	
		individual skills in relation to the	
		employee's requalification	
		potential	
		S.3.11. Create customised	
		requalification pathways for own	
		employees	
Module 4	K.4.1. Name types of	S.4.1. Provide examples of	C.4.1. Act independently when
Motivating and guiding individuals	motivational techniques for the	motivational techniques for the	using motivational techniques for
through building Open Innovation	workplace	workplace	the workplace
capacities	K.4.2. Identify employee	S.4.2. Practice motivational	C.4.2. Lead the team to come up
	motivation tools	techniques for the workplace	with innovative problem
	K.4.3. Explain/describe what	S.4.3. Choose the appropriate	solutions
	motivation strategy means	tools to motivate employee	
		S.4.4. Modify selected	
		motivational approaches to the	



Learning Outcomes ² →			
Modules Ψ	KNOWLEDGE	SKILLS	COMPETENCIES
		specificity of employees and to	
		job profile	
		S.4.5. Efficiently apply the	
		selected tools to motivate	
		employee	
		S.4.6. Conduct/guide employees	
		in in building their OI capacities	
		based on motivation and specific	
		individual needs	
		S.4.7. Describe the steps of	
		tailoring motivation approach to	
		meet employees' individual	
		needs	
		S.4.8. Illustrate advices and	
		recommendations for	
		implementing OI approach in	
		your organisation	

3.4. Delivery Plan

Modules	Self- directed learning via OPI e- platform	Further reading	Total
1. Building awareness of Open Innovation and Open	4 hrs	8 hrs	12 hrs
Innovation competencies for modern economy			
2. Ability to identify Open Innovation mechanisms and	4 hrs	8 hrs	12 hrs
competencies			
3. How to spot potential for requalification based on	4 hrs	8 hrs	12 hrs
individual abilities, especially inherent ones			
4. Motivating and guiding individuals through building	4 hrs	8 hrs	12 hrs
Open Innovation capacities			
		TOTAL	48

3.5. Assessment methods & tools

All modules will contain at the end a tool to assess trainees' acquisition of Learning Outcomes.

The assessment tools will be applied at the end of training to all trainees who completed the training. Like the training, the tests will be administered online, via the OPI eplatform.

Thus, for each module, the assessment tool will be in the form of an online test with 9 multiple-choice valuation items. The test will be designed by module developers, according to the learning/training objectives and envisaged Learning Outcomes of the module.

Each test for module evaluation will contain:

- Methodical instructions³ for trainees on how to perform the test (description of items type, procedure to solve each item, test duration, test delivery, test score).
- 9 multiple-choice evaluation items
- Correct answers list (at the end of the test)
- Feedback to trainee (if necessary)

Each evaluation item will consist of a statement (the 'stem' or 'stake') and 4 answer-options, of which <u>only one is correct</u> (the other 3 are distractors). Answer-options like 'all of the answer-options', 'none of the answer-options' will be avoided!

The difficulty level of the items does not have to be a high one (a medium/moderate difficulty scale is recommended).

³ UPIT suggestion is to use the same common text for the instructions for trainees, in all modules. UPIT volunteered to elaborate the afferent text (the text may be found within the final evaluation test template).





Each item correctly solved values 1 point. Thus, the maximum possible score per test is 9 (nine). 1 additional point (ex officio) will be added, in order to work in one of the most common European evaluation scales, namely from 1 to 10 (a score of 1 to 4 means failure, 5 to 10 means success).

Duration of the test will be of 15 minutes (90 seconds per item, plus the required time to read instructions and quickly check the selection of the answers).

Additionally, to the module's evaluation final test (which is mandatory), developers can create/include in their module any other evaluation tools that they consider appropriate and relevant for the training performance (worksheets, practical exercises in H5P, structured essays, reflections and feedback on the read materials, etc.)

Developers will strictly use the evaluation test template provided under section 4.2.

4. Guidelines for development of the training content

4.1. Instructions for developers

Modules 1 and 2 will be developed by E&D. Modules 3 and 4 will be developed by UPIT.

All other partners will provide feedback on this methodology, curriculum and developed modules.

When designing the learning content and supporting tools of the modules, developers should take into account that the delivery of the curriculum (training) will be achieved online, via the OPI e-platform, through a self-directed learning approach and not through a face-to-face approach. Thus, knowledge contents and activities to be implemented by trainees should be self-standing, without requiring the physical presence and support of a trainer. Towards this end, contents should meet the following criteria and features:

- To be learner-driven (give learners choices in their learning materials)
- To be goal-oriented (ask learners to make goals)
- To involve active learning (build learner knowledge through problem-solving and discussion questions)
- To provide opportunity for deliberate practice (break the skills down for learners and align with practice activities)
- To foster communities of practice and make learners benefit from them (self-directed learning by nature is independent, but it doesn't need to be done in isolation)

As the training will be delivered online, for creating successful online learning environment, developers should envisage the following aspects:

To structure and organize the learning content





- To design student-content interactions
- To present learning content with multimedia
- To design learning activities
- To provide assessments

In order to facilitate understanding and support the skills & competencies acquisition, the learning contents for all modules will be highly enriched with supporting tools (examples, graphics, cases, exercises, educational audio-video resources, etc.).

Each module will have total duration of 12 hours (4 hrs for self-directed activities, 8 hrs for further reading activities). Each module will contain 4 activities (with 2 parts or subactivities: one meant for self-directed learning, the other for further reading), with total duration 3 hours each activity (1 hr for self-directed learning, 2 hrs for further reading). Assessment activities are not included in the learning/training hours (assessment time is outside of the learning/training time).

Developers will strictly use the module/activities development template provided under section 4.2.

4.2. Templates

4.2.1. Module development template for self-directed learning

	Module title:		
Designed by: .	(name and ac	cronym of the partn	er institution)
Aim of the Module	Please write here		
TOTAL Learning time of which:	Self-directed learning	Further reading	Assessment
12 hours 15 min	4 hrs	8 hrs	15 min ⁴
Title of activity A.1.1 E.g. Introducing Open Innovation	1 hr	2 hrs	15 min
Title of activity A.1.2.	1 hr	2 hrs	15 min
Title of activity A.1.3.	1 hr	2 hrs	15 min
Title of activity A.1.4.	1 hr	2 hrs	15 min

LEARNING OUTCOMES OF THE MODULE

On successful completion of this Module, trainees (HR professionals) will be able to:

Knowledge*	K.1.1. K.1.2.
Skills*	S.1.1. S.1.2.

⁴ If in addition to the mandatory final test at the end of the module, you will include other assessments as well, please modify accordingly and adjust the allocated time to fit to all assessments.





	C.1.1
Competencies*	C.1.2

^{*}Please select your LOs from the LO Matrix provided under section 3.3 starting on page 19

Activity Code	Activity Title	Activity type (self-directed learning)	Learning Outcomes to be achieved through this activity	Learning Time for this activity (min)
A1.1	E.g. Introducing Open Innovation	Self-directed learning	E.g.: K.1.1. K.1.2. S.1.4. C.1.3.	1 hour
Overview of Content	Please describe very clearly her (annexes) s/he should read/use For example ⁵ : • The trainee is welcome Module is developed in presenting the module activity (e.g. Annex 1, sl.) • The trainee reads the reads the reare introduced by the heronomy. • The trainee performs/so. • While s/he works, if s/heronomy. • At the end of the time accomplished task (file of the trainee reads the economy which are presented.)	by an introductory on the framework and announcing the ides 1-3) (5 min) main concepts on early of e.g. Annex 1, 1, introduced by the olves Task 1. (15 mine needs additional ead (or watch, if it or://XXXX (3 min) er allotted to Task or result) on the e-padvantages of Op	r text, emphasi of the OPI pre learning objects. Open Inno slides 6-12. (1 ne worksheet in n) explanations of the trainee olatform. (5 miles of the Innovation	zing that this oject, briefly ectives of this vation which 0 min) an Annex 2. (2 on the topic in the additional uploads the n) for modern
Content delive	 The trainees resolve Exe The trainee reads the ta (5 min) erv methods (lecture (if pre-reconstruction)	keaways from this a	activity and refl	ects on them

Content delivery methods (lecture (if pre-recorded PPT or video) or reading, literature review, problem-solving, etc.)

E.g. Reading

⁵ This is just a brief example with informative aim on how you can develop your learning/training content. Other types of tasks and activities may be also utilized, like for example, literature review and online search, comparisons between various concepts or definitions, critical thinking, design of processes, development of materials and resources, etc....





Individual work Reflection

Didactic Materials Required (worksheet, charts, handouts, didactic video, excerpt from books/manuals, mind maps, etc.)

E.g.

OPI IO2 Module1 A.1.1 Annex 1.pptx

OPI IO2 Module1 A.1.1 Annex 1 Annex 2.doc

OPI IO2 Module1 A.1.1 Annex 1 Annex 3.pdf

http://XXXX

as shown above, under section "Overview of Content".

Assessment method

E.g.

By evaluating the task completed in the worksheet (Annex 2). By taking the test at the end of the module

References

XXX

<u>Note to developers</u>: please multiply the above table when you design your modules' activities, thus to have one table for each activity.

4.2.2. Materials and resources for further reading

For each module, the developers will provide:

- Introduction about the module (title, topics, LOs) (1/2 page)
- 4 key readings (PDF documents) for self-study (4 hours)
- 1 link to a related video, TEDx talk or equivalent (available on YouTube) 2 hours (watching + reflection + rendering one-page essay presenting own perspective on the issue)
- 2 links to existing resources on the internet (e.g. related EU projects, etc.) for self-study (2 hours)

4.2.3. Final evaluation test template (1 test per module)

Final evaluation test for Module X

Methodical instructions:

- → Each item consists of a statement (the 'stake') and 4 answering options, of which only one is correct.
- → Read the text of each item carefully and identify the correct option.
- → Tick the correct option (🗵). This option represents the solution of that item.
- → Recommended total time per test: 15 minutes.
- → Possible maximum score = 9 points. Each item correctly solved values 1 point.
- → FINAL GRADE = Score + 1 point *ex officio*.





1.	Statement:
	\square (a) Answer-option 1;
	\square (b) Answer-option 2;
	\square (c) Answer-option 3;
	\square (d) Answer-option 4.
2.	Statement:
	\square (a) Answer-option 1;
	\square (b) Answer-option 2;
	\Box (c) Answer-option 3;
	\Box (d) Answer-option 4.
3.	Statement:
	\square (a) Answer-option 1;
	\Box (b) Answer-option 2;
	\Box (c) Answer-option 3;
	\Box (d) Answer-option 4.
4.	Statement:
	☐ (a) Answer-option 1;
	☐ (b) Answer-option 2;
	\Box (c) Answer-option 3;
	\square (d) Answer-option 4.
_	
5.	Statement:
5.	Statement: ☐ (a) Answer-option 1;
5.	Statement: ☐ (a) Answer-option 1; ☐ (b) Answer-option 2;
5.	Statement: ☐ (a) Answer-option 1; ☐ (b) Answer-option 2; ☐ (c) Answer-option 3;
	Statement: ☐ (a) Answer-option 1; ☐ (b) Answer-option 2; ☐ (c) Answer-option 3; ☐ (d) Answer-option 4.
 6. 	Statement: (a) Answer-option 1; (b) Answer-option 2; (c) Answer-option 3; (d) Answer-option 4. Statement:
	Statement: (a) Answer-option 1; (b) Answer-option 2; (c) Answer-option 3; (d) Answer-option 4. Statement: (a) Answer-option 1;
	Statement: (a) Answer-option 1; (b) Answer-option 2; (c) Answer-option 3; (d) Answer-option 4. Statement: (a) Answer-option 1; (b) Answer-option 2;
	Statement: (a) Answer-option 1; (b) Answer-option 2; (c) Answer-option 3; (d) Answer-option 4. Statement: (a) Answer-option 1; (b) Answer-option 2; (c) Answer-option 3;
6.	Statement: (a) Answer-option 1; (b) Answer-option 2; (c) Answer-option 3; (d) Answer-option 4. Statement: (a) Answer-option 1; (b) Answer-option 2; (c) Answer-option 3; (d) Answer-option 4.
6.	Statement: (a) Answer-option 1; (b) Answer-option 2; (c) Answer-option 3; (d) Answer-option 4. Statement: (a) Answer-option 1; (b) Answer-option 2; (c) Answer-option 3; (d) Answer-option 4. Statement:
6.	Statement: (a) Answer-option 1; (b) Answer-option 2; (c) Answer-option 3; (d) Answer-option 4. Statement: (a) Answer-option 1; (b) Answer-option 2; (c) Answer-option 3; (d) Answer-option 4. Statement: (a) Answer-option 4.
6.	Statement: (a) Answer-option 1; (b) Answer-option 2; (c) Answer-option 3; (d) Answer-option 4. Statement: (a) Answer-option 1; (b) Answer-option 2; (c) Answer-option 3; (d) Answer-option 4. Statement: (a) Answer-option 4.
6.	Statement: (a) Answer-option 1; (b) Answer-option 2; (c) Answer-option 3; (d) Answer-option 4. Statement: (a) Answer-option 1; (b) Answer-option 2; (c) Answer-option 3; (d) Answer-option 4. Statement: (a) Answer-option 4.
6.	Statement: (a) Answer-option 1; (b) Answer-option 2; (c) Answer-option 3; (d) Answer-option 4. Statement: (a) Answer-option 1; (b) Answer-option 2; (c) Answer-option 3; (d) Answer-option 4. Statement: (a) Answer-option 1; (b) Answer-option 2; (c) Answer-option 1; (d) Answer-option 1; (e) Answer-option 2; (f) Answer-option 3;
 7. 	Statement: (a) Answer-option 1; (b) Answer-option 2; (c) Answer-option 3; (d) Answer-option 4. Statement: (a) Answer-option 1; (b) Answer-option 2; (c) Answer-option 3; (d) Answer-option 4. Statement: (a) Answer-option 1; (b) Answer-option 2; (c) Answer-option 3; (d) Answer-option 3; (e) Answer-option 3; (f) Answer-option 3; (g) Answer-option 3; (h) Answer-option 4.
 7. 	Statement: (a) Answer-option 1; (b) Answer-option 2; (c) Answer-option 3; (d) Answer-option 4. Statement: (a) Answer-option 1; (b) Answer-option 2; (c) Answer-option 3; (d) Answer-option 4. Statement: (a) Answer-option 1; (b) Answer-option 2; (c) Answer-option 2; (d) Answer-option 3; (d) Answer-option 3; (d) Answer-option 3; (d) Answer-option 4. Statement:
 7. 	Statement: (a) Answer-option 1; (b) Answer-option 2; (c) Answer-option 3; (d) Answer-option 4. Statement: (a) Answer-option 1; (b) Answer-option 2; (c) Answer-option 3; (d) Answer-option 4. Statement: (a) Answer-option 1; (b) Answer-option 1; (c) Answer-option 2; (d) Answer-option 3; (d) Answer-option 3; (d) Answer-option 3; (d) Answer-option 4. Statement: (a) Answer-option 1;



9. Statement:



Correct answers list (for trainers only):

 \square (d) Answer-option 4.

.....

Example of item:

1. An entrepreneur exhibits innovation by:

- ☐ (a) Being unique and original in his/her solution;
- ☐ (b) Using existing products or services;
- ☐ (c) Ignoring the new ideas;
- ☐ (d) Buying from other and re-selling new products.

Example of correct answers list (for trainers only):

- 1. a
- 2. c
- 3. d
- 4. b
- 5. b
- 6. d
- 7. a
- 8. c
- 9. a

