

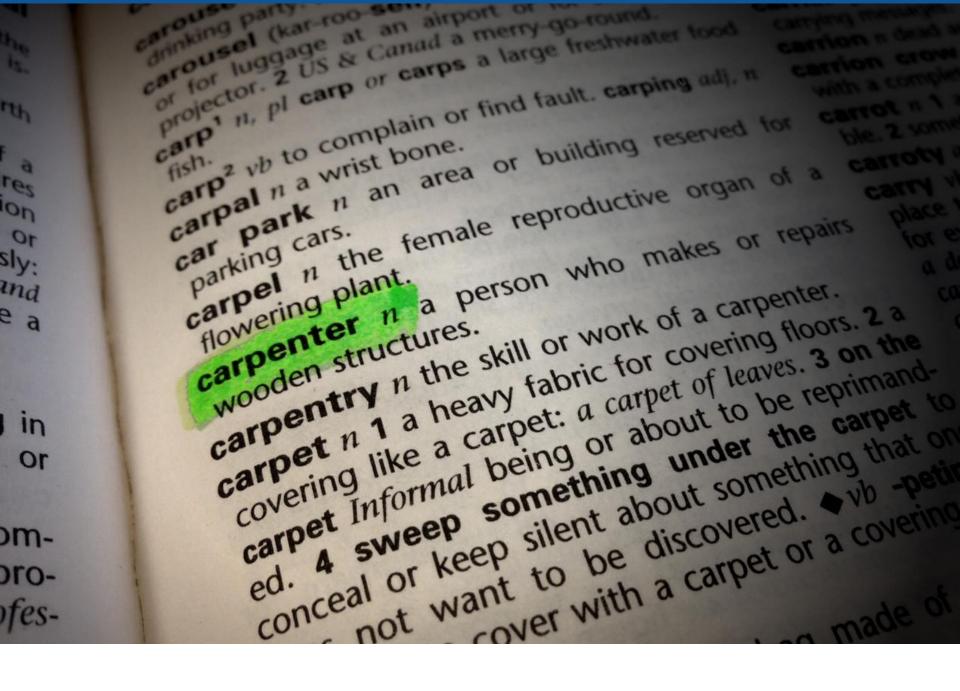
Session 6

ESCO : Occupations and Skills. New Skills hierarchy. Uses of ESCO skills for comparison of qualifications and matching

Webinar Make it Match, 10 December 2020



What is ESCO?





Why ESCO?

Problem: National systems cannot "talk" to each other

Result: Jobs are not filled; education and labour market do not always understand each other

Solution: Common reference language





ESCO as a common reference language





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ESCO & EURES

- New EURES Regulation 2016/589/EU
- Exchange of job vacancies and CVs/job applications
- Art. 19 (3)

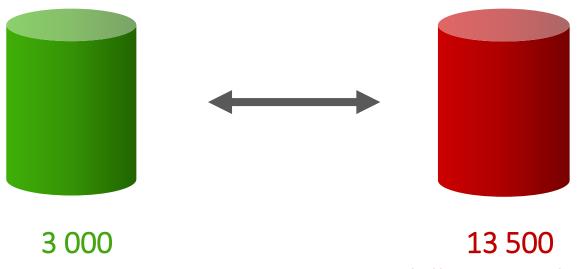
"The Commission shall adopt and update, by means of implementing acts, the list of skills, competences and occupations of the European classification."

- Member States will adopt the European classification or map their national standards to it





European Skills, Occupations and Qualifications



Occupations

13 500 Skills + Knowledge



Q Search

ំ OCCUPATIONS

- > 0 Armed forces occupations
- > 1 Managers
- > 2 Professionals
- > 3 Technicians and associate profe...
- > 4 Clerical support workers
- > 5 Service and sales workers
- > 6 Skilled agricultural, forestry and ...
- > 7 Craft and related trades workers
- > 8 Plant and machine operators an ...
- > 9 Elementary occupations

Occupations

2942 occupations The occupations pillar is one of the three pillars of ESCO. It organises the occupation concepts in ESCO. It uses hierarchical relationships between them, metadata as well as mappings to the International Standard Classification of Occupations (ISCO) in order to structure the occupations.

Each occupation concept contains one preferred term and any number of non-preferred terms and hidden terms in each of the ESCO languages.

Each occupation also comes with an occupational profile. The profiles contain an explanation of the occupation in the form of description, scope note and definition. Furthermore, they list the knowledge, skills and competences that experts considered relevant terminology for this occupation on a European scale.



Q Search

່ະ SKILLS/COMPETENCES

∍

- > A attitudes and values
- > K knowledge
- > L language skills and knowledge
- > S skills

Skills

13485 skills / competences

The ESCO skills pillar distinguishes between i) skill/competence concepts and ii) knowledge concepts by indicating the skill type. There is however no distinction between skills and competences. Each of these concepts comes with one preferred term and a number of non-preferred terms in each of the 27 ESCO languages. Every concept also includes an explanation in the form of description.

The skills pillar of ESCO contains 13,485 concepts structured in a hierarchy which contains four subclassifications. Each sub-classification targets different types of knowledge and skill/competence concepts:

- Knowledge
- Skills
- Attitudes and values
- Language skills and knowledge





ESCO portal redesign







ESCO in digital applications: use cases

Job-matching and searching

Ontology management & machine learning

Graduate tracking

Curricula development Career learning & development management

Statistical research



Use of ESCO by EU services











openskimr

HEUSE OF SKILLS



ESCO supports start-ups & SMEs





The ESCO skill hierarchy





Why a skill hierarchy?

- Mapping of national skills classifications to ESCO
- Competence-based job matching
- Compiling CVs and job vacancies
- Drafting of job descriptions, assessment of candidates' skills etc.
- Design of educational curricula and drafting of learning outcomes
- Suggestion of training and learning opportunities
- Annotating qualifications with ESCO skill and knowledge concepts
- Creating skill self-assessment tools
- Big data analysis of job vacancies
- Career guidance and other HR services



Development of the hierarchy and allocation of ESCO skills





K	Knowledge					
S	Skills					
S01	Communication, collaboration and creativity					
S02	Information skills					
S03	Assisting and caring					
S04	Management skills					
S05	Working with computers					
S06	Handling and moving					
S07	Constructing					
S08	Working with machinery and specialized equipment					
Α	Attitudes and values					
A1	Attitudes					
A2	Values					
L	Language skills and knowledge					





Skills

- Canadian Job Bank
- O*NET

Knowledge

• ISCED-F



3-level skill hierarchy Broader Narrower



Basic elements of the hierarchy

□ Mono-hierarchical structure;

Combination of both occupation-specific and transversal skill categories;

□ Sector-independent



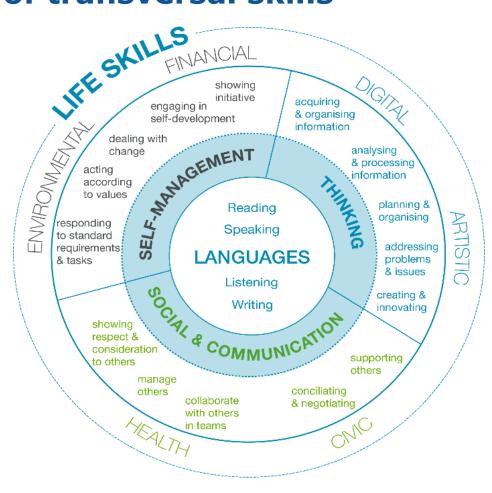
Why is a skill hierarchy important when matching learning outcomes to skills?

□ Find skills easier

□ Free to determine the level depending on the granularity of the curriculum. If not able to match learning outcomes to skills, the user can match to the higher level (skill group).



New list of transversal skills









Continuous improvement of ESCO

* *



Why ESCO needs to be updated

Ensure ESCO is fit-for-purpose:

- Changes in the labour market;
- Changes in education/training;
- Changes in terminology;
- Changes in the requirements of IT applications;
- Correction of any identified issues.



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Uses of ESCO skills for comparison of qualifications and matching



Increase transparency

Better understanding of the scope of qualifications and their relevance to the labour market.

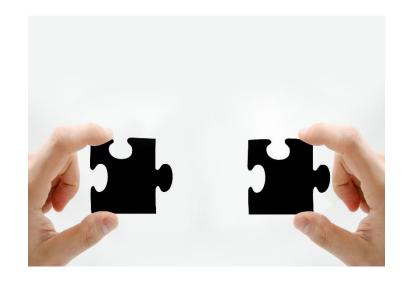




Facilitate matching of CVs with job vacancies

Job matching providers, matching algorithms and career counselors can use information of skills associated to qualifications to **assess candidates' profiles**

Individuals improve chances on labour market through **better matching**





Feedback loop

Strengthen the feedback loop between education/training institutions and labour market stakeholders

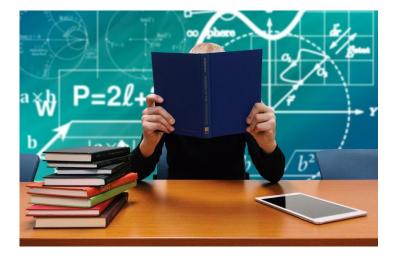




Provide suitable training, learning and job opportunities

Users can, on the basis of their own skills needs, identify and receive suggestions on relevant education and training offers and qualifications

Indirect link between qualifications and occupations





Provide suitable training, learning and job opportunities

My interests Me 🔫 LIDrary Applications My Skills You may be interested in... See my favourites Update your profile, skills and interests to receive tailored jobs and courses Jobs OX OX OX BBVA Wedding Senior Photographer Wedding Senior Photographer Photographer > < Johanna Smith BBVA, Spain BBVA, Spain Zoom, France 12/04/2019 (2 weeks ago) 12/04/2019 (2 weeks ago) 12/04/2019 (2 weeks ago) "Keep calm, take photos" English -Courses I'm interested in photography, people and nature. I'm a passionate O X O X O X School of Art **BBVA** photographer since the age of 9, when I got my first camera. Today,... Wedding Senior Photographer Become a fashion photographer Wedding Senior Photographer < > BBVA, Spain School of Arts, Germany BBVA, Spain **View full Profile** 12/04/2019 (5 weeks ago) 🕅 12/04/2019 (2 weeks ago) 12/04/2019 (2 weeks ago) Create a CV My Skills Add new skill Add new interest My Interests Create a Cover Letter protect ICT devices adapt to change Photography teacher Adobe Lightroom French implement anti-virus software Teach English street children in Mexico My Applications implement a virtual private network Photojournalist Portuguese My Library



Learning outcomes linking to ESCO skills pilot

Vision: create a tool for matching any type of text with skills

Objective: how to link skills using technology

Pilot: combined approach of tool and human intervention



Learning outcomes linking to ESCO skills pilot

1st phase

- Jun-Dec 2019
- 5 participants: PO, NL, SI, RO, LV
- 1st version of the algorithm (simple)

2nd phase

- Sept 2020 Dec 2020
- 10 participants: FR, IT, BE, CZ (observer) plus 5 before, ETF, IDB, ETUC (observer)
- Improved algorithm/tool
- Skills hierarchy incl.
- Jan 2021: webinar to present the improved version of the tool



