

La strada per le digital credential nel panorama delle microcredential e dei digital badge

Lo scenario europeo 3 July 2024

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## **Changing labour markets**

andreament contracts





More frequent professional transitions



Shifting employment between sectors



**Shifting skills needs** 



#### **Demographic changes**



# Skills shortages as a *challenge* and skilled workforce as an *enabler*



38 occupations were classified as shortages in 2022



74% of SMEs reported that they face skills shortages in 2023 adult learning remains low with a participation rate of around 37% over 90% of jobs require digital skills, however 54% of the adult population in Europe has basic digital skills



### European Pillar of Social Rights - Targets (2021 -> 2030)

At least:

**78%** of the population aged 20 to 64 should <u>be in employment</u> by 2030 Current level: 73.1% (2019)

**60%** of all adults should <u>participate in training</u> every year by 2030

Current level: 37.4% (2016)

#### <u>Reduce</u> by **15 million** the number of people at <u>risk of poverty or social exclusion</u> by 2030

Current level: 91 million persons (2019)



Individual Learning Account Recommendation

Skills and Talent Mobility Package

## What is a Digital Credential?

What is it?

A digital presentation of our traditional learning credentials, securely received directly in one's digital wallet



## **Context of European Digital Credentials**



**Digitalising world** 

Security & Trust

Recognition

Showcasing Knowledge & Skills

Ownership of data



## **Digital Transition for Credentials**

- A move beyond paper
- Adapting to market needs
- Sharing credentials online
- All your credentials in one place
- Cost & Time efficiency









## What is offered by the EDC infrastructure?





## **Transparency and Portability**

Ana Andromeda Applied mathematics 血 CivEng Faculty of Civil Engineering P Master of Science in Civil Engineering Brussels, Slash Lane 94, 1000 Brussels, Belgium 血 Legal 8E-9758813 Higher education institution Res9800 Postgraduate approximately Awarding Date Overal Assessment 20/09/2019 Applied mathematics ~ mathematics achievement. This is the description of the applied mathematics achievement. Concrete structures I ~ Recognition for credit Learning Outcomes Postgraduate doctimal study Learning Outcome 1 related to applied Civil angineer mathematics To formulate equations of mathematical physics for engineering problems, and to solve them analytically or with numerical 487 properties describe methods recovery. Type Type knowledge skill Credential owner Reusability Level cross-sector skills and competences Organisations Related ESCO Skills execute analytical mathematical calculations, use mathematical tools and equipment **Achievements** Show less A Achievement information Assessments (1) Volume of Learning

60 hours

Activities

Entitlements

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## **European Learning Model**

#### **01 European Information Model**

Definitions and Standards in EQF Recommendation, Diploma Supplement, Europass Decision, etc. supplemented by glossaries for additional terms

#### **03 Application Profiles**

Specific sets of rules for publishing learning opportunities, qualifications, accreditations and credentials in Europass



#### **02 European Learning Model**

A Linked Open Data publication of concepts to be used in educational and employment use cases throughout Europe

#### **04 Extensions**

National, Regional or Sectoral extensions of the data model & application profiles to deal with specific use cases



## **Digital Credentials and ESCO**

#### European Skills, Competences, Qualifications and Occupations (ESCO)

- describing, identifying and classifying professional occupations and skills relevant for the EU labour market and education and training area
- systematically showing the relations between those occupations and skills
- ELM allows allows the cross-references

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Ana Andrometa		Proven by			
University Great		Title	Grade	Grade	
Master of Science in Civil Engineering	~	Overall Assessment	excelle	excellent (5)	
Applied mathematics course	~	Influenced by: Applied mathematics course, Applied mathematics Sludy visit, Concrete structures I course, Dynamics of structures and earthquake engineering course. Geotechnical engineering course, Stability of structures course. Entitles Owner to: Postgraduate doctoral study , Clvil engineer , Recognition for credit. Sub-Achievements Applied mathematics, Concrete structures I, Dynamics of structures and earthquake engineering, Geotechnical engineering, Geotechnical engineering, Geotechnical engineering, Stability of structures. Specification			
Applied mathematics Study visit	~				
Concrete structures I course	~				
Dynamics of structures and earthquake engineering course	~				
Geotechnical engineering course	~				
Stability of structures course	-	Ach-Spec-ID-Scheme identifier: AchSpecID-72			
	-	Learning Outcomes:			
Postgraduate doctoral study		LOIO-Scheme Identifier: LOID-73a			
Civil engineer		To formulate equations of mathematical physics for engineering problems, and to solve them analytically or with numerical methods.			
Recognition for credit		Type: knowledge			
		Reusability Level: cross-sector skills and c	ompetences		
		Related ESCO Skills: use mathematical to calculations, geodesy	ois and equipment, execute	analytical ma	memetical
		Related Skills: applied mathematics, perform engineering calculations, construct earthquake resistant structures			



## **Current Status of uptake of EDC**

- 14 institutions **actively** issuing EDCs
- 50+ organisations testing or exploring the use of EDCs across **25 countries**
- Ranging from VET providers, Universities, Training providers, and national implementations
- Close to **30.000** EDCs are stored in Europass wallets
- 5+ million wallets available
- Varied types of credentials: qualifications/diplomas, micro-credentials, transcript of records, certificates of participation, etc.





#### **Europass infosite**

Presents information as described on the Europass decision and the first access point to register and use the digital tools.

### Jobs, Learning Opportunities, and Qualifications Search

Central database to search for courses, qualifications, accreditation throughout Europe and link with EURES

#### **Digital Credentials**

Set of standards, services & software allowing institutions to issue digital, tamper-evident qualifications and other learning credentials.

### e-Portfolio

Set of online tools & information to manage every step of your learning and career.

#### Digital skills selfassessment test

Tool to assess and improve digital skills. Based on the Digital Competence Framework.



# Thank you!

#### Contact the EDC Team at EMPL-ELM-SUPPORT@ec.europa.eu

