

Europass Components & Interoperability



e-Portfolio

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

Digital skills Test

Open-source tool to assess and improve digital skills. Based on the Digital Competence Framework.

Europass infosite

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

Jobs, Courses, and Qualifications Search

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

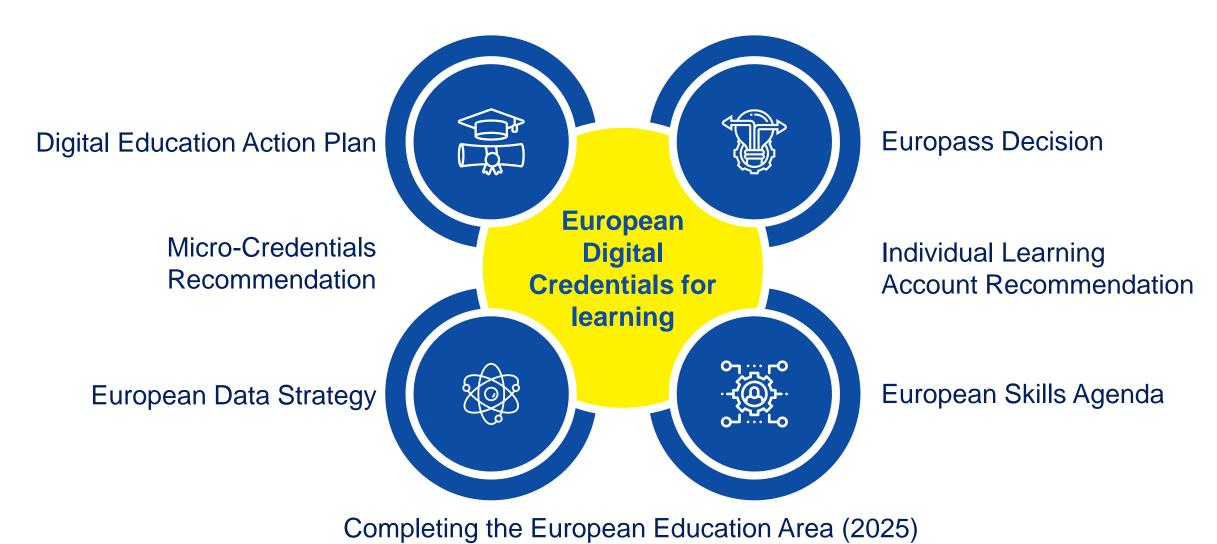
Digital Credentials

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



Central to the EU Policy Agenda





Why an EU role in Digital Credentialing?



OBJECTIVES

- Empower citizens to own their credentials
- Semantic standards for Dig Cred
- Create an EU Skills Data Space
- Make digital credentials multilingual by default
- Remove barriers to recognition
- Provide accreditation & transparency tools

BENEFITS

- Captures formal, non-formal & informal learning
- Addresses all levels of E&T
- Applicable to the whole course lifecycle
- Interoperable credentials
- Aligned with European recognition instruments
- Free & open source

What is a European Digital Credential for Learning?



A **digital credential** covers two areas:

- Content = learning outcomes, skills, description of the activities
- **Envelope** = area of identity, authentication, secure delivery policies

A **European Digital Credential for Learning** is a claim related to the learning achievement of a person. It creates the link between an individual, an awarding body, and a learning achievement.

A European Digital Credential for Learning consists consists of data that is structured in accordance with a data model (the European Learning Model).

European Digital Credentials for Learning are **tamper-proof** and secure (they respect data privacy). They comply with the **international standards** of "verifiable credentials".



European Digital Credentials for Learning require an e-seal (= digital signature with legal value in line with e-IDAS regulation).

Types of digital credentials

- A **credential**, in its most essential form, is a documented statement containing claims made about a person
- qualifications (e.g., professional certificates, university diplomas, VET diplomas, and diploma supplements),
- activities (e.g., participation in classes and non-formal learning events),
- assessments (e.g., transcripts of records), and
- entitlements (e.g., right to enrol in learning opportunities, or to undertake an occupation)







European

Commission

11/03/2021 00:00 GMT +0100 to 01/04/2021 00:00 GMT +0200

Student Network (ESN) possesses unique knowledge of the nee positious and active citizens of the world. Therefore, through various training programmes, ESN thrives to provide more inclusive

who have necessary competences, knowledge and tools needed to design and deliver workshops, as well as training events in order to further educate and develop students

President of Erasmus Student Networ



Kostis Giannidis

Managing Changes

CERTIFICATE OF ACCOMPLIS

The certificate of accomplishment is not valid for university credits.

Milan, 15/01/2021 00:00 GMT +0100

Authenticity of this certificate can be verified at https://www.pok.polimi.it/certificates

European Digital Credentials for Learning



Functions



Issue

credentials and send them to their owners



Store

credentials securely in a single online or offline wallet



Verify

if the credential is authentic, valid and issued by an accredited organisation



Share

the information in the credential with any other person or organisation with just a click

European Digital Credentials for Learning



Components of the infrastructure

This infrastructure encompasses the technical specifications to implement the framework. It comprises the following core building blocks to help operationalise the framework



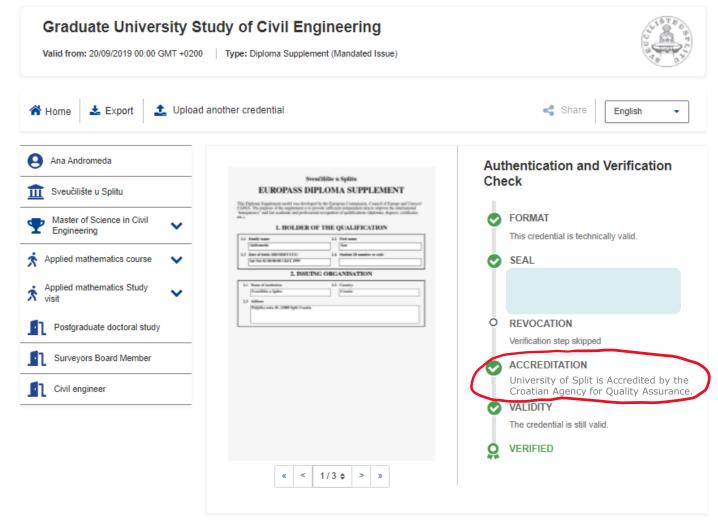




Diploma Supplement and Instant and Automatic Checks,

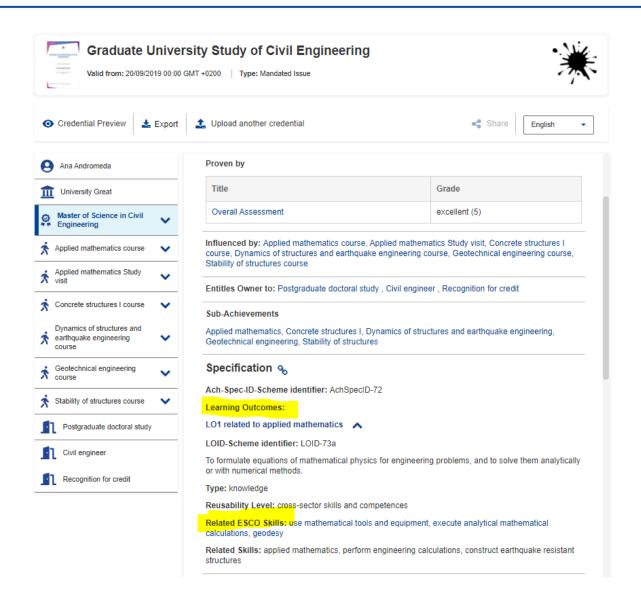


including Accreditation



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



Thank you!

Contact us at

EMPL-ELM-Support@ec.europa.eu



Introduction to ESCO



The European Classification of Skills, Competences and Occupations

ESCO works as a dictionary, **describing**, **identifying** and **classifying** professional occupations, skills, and qualifications relevant for the EU labour market and education and training.



ESCO v1.1.1

Green transition



Digital transition



Emerging technologies



Increasing importance of transversal skills



Artificial intelligence



Identification of a taxonomy of skills for the green economy

109 new concepts related to digital technologies

Focus on occupations and skills for researchers

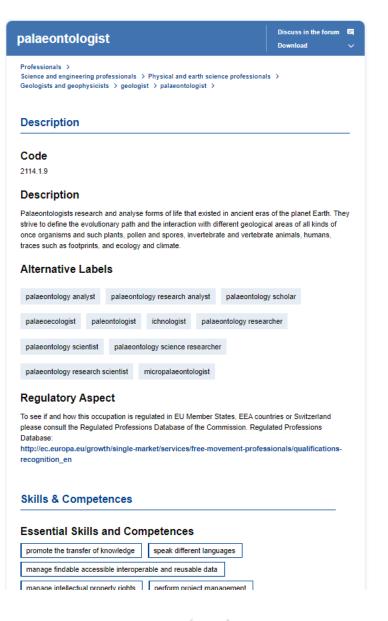
New model for transversal skills and competences

Application of artificial intelligence to improve efficiency of the continuous improvement process



Occupation profiles

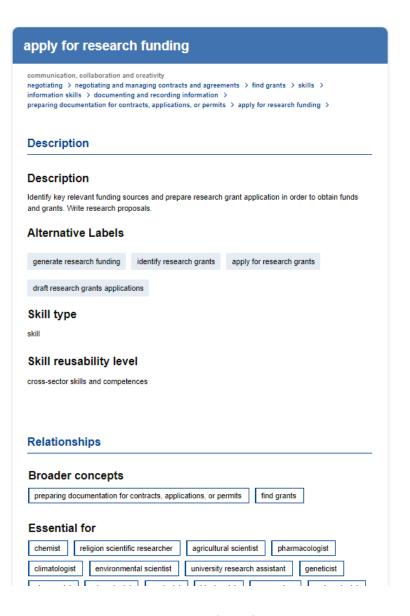
- Occupation hierarchy
 - Built on ISCO 08
 - Can have further specialisations
- Description, alternative labels, regulatory aspect
- Essential and optional skills and knowledge
 - A set of skills for each occupation
- Machine readable
 - One URI
 - Based on SKOS
- Translated in 28 languages





Skill & knowledge profiles

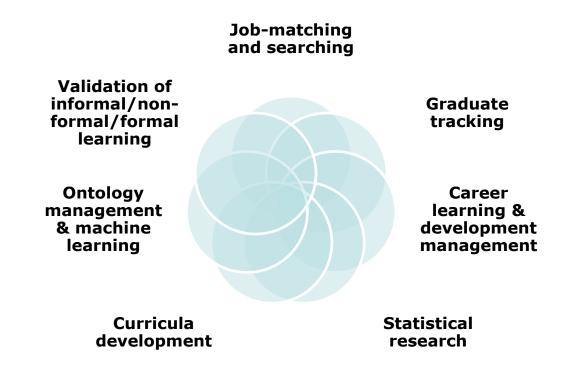
- Multiple hierarchies
 - Skill hierarchy
 - Transversal skill hierarchy
 - Knowledge hierarchy
 - Language hierarchy
- Description, alternative labels, reusability level
- Essential and optional occupations
 - A set of occupations for each skill
- Labels: green, DigComp, research
 - Working on a digital label
- Machine readable
 - One URI
 - Based on SKOS
- Translated in 28 languages







ESCO in digital applications: use cases





Mission of Data Science for ESCO

Use an analytical approach based on <u>statistical analysis</u>, <u>data science</u> and <u>machine learning</u> to **assist** in:

Making maintenance of ESCO more efficient

Expanding ESCO

Making ESCO easier to use by implementers

