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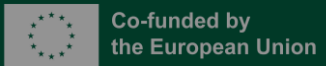


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EXCEED

Excellence in Green and digital manufacturing





Disclaimer

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Upskilling Programme for VET professionals

Introduction to European Digital Credentials for Learning

12 December 2024

WHAT IS A DIGITAL CREDENTIAL?

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



THE DIGITAL CREDENTIAL CONTENT AND ENVELOPE

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.
- consists of **data** that is structured in accordance with a data model (the European Learning Model).
- is **tamper-evident** and secure (they respect data privacy). They comply with the **international standards** of “verifiable credentials”.
- requires an **electronic seal** (= digital equivalent of an organisation’s rubber stamp with legal value in line with e-IDAS regulation).



A **digital credential** covers two areas:

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

WHY DO WE NEED 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



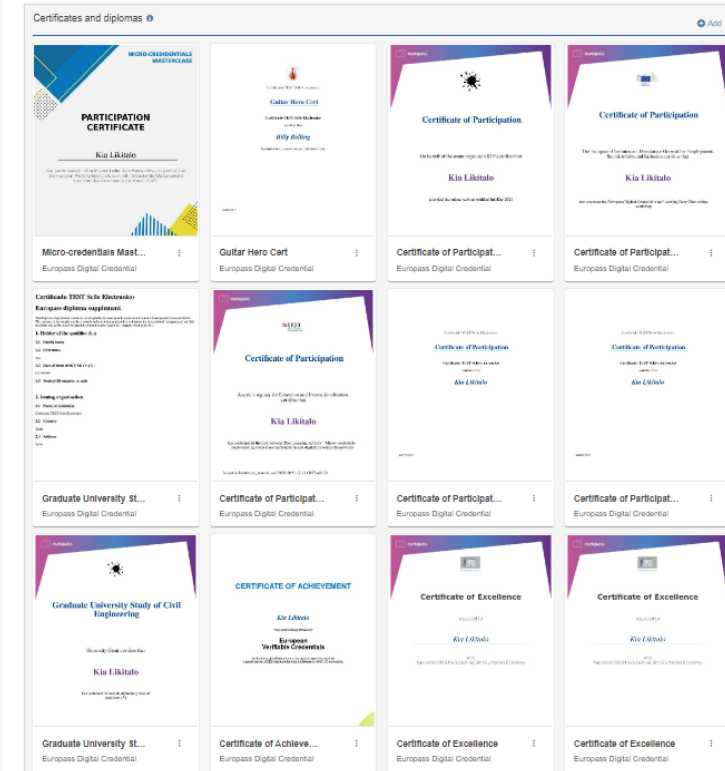
Sharing
credentials online



All your credentials
in one place



Cost & Time
efficiency



SECURITY & TRUST: Beyond PDFs



Electronic Seal

the digital equivalent to a rubber stamp



Certifying the origin

fighting diploma mills

The screenshot shows the 'signConfirmationModal' interface of the europass system. At the top, it displays the 'europass European Union' logo. Below this, there are navigation links for 'Learn in Europe', 'Work in Europe', and 'About'. The main content area shows the following details:

- Issuer:** Certificado TEST Sello Electronico (VATES-B00000000) - Nombre Servicio Sellado TEST
- Place of Issue:** ES
- Date & Time of Issue:** 2023-03-09T07:21:32+01:00

There are 'Cancel' and 'Proceed' buttons. Below this, there are links for 'Home', 'Export', and 'Upload another credential', along with a 'Share' button and a language dropdown set to 'English'. The 'Issuing organisation' section is expanded, showing:

- Nombre Servicio Sellado TEST**
- Certificado TEST Sello Electronico**
- Spain** <https://unix.eu>
- Legal VATES-B00000000** VAT identifier 10065502 TAX identifier 12345678
- Email:** contact@jamk.fi

The 'Accreditation' section is also expanded, showing 'Institutional audit' and a 'Show more' link. The bottom right corner features the 'LOREMIPSUM' logo.



SECURITY & TRUST: Beyond PDFs



Tamper-evident

Format check ensures the non-alteration of the credential



Trust in authenticity

Recipient identity cannot be altered

Check Category	Status	Description
FORMAT	✓	This credential is technically valid.
SEAL	✗	The seal of the credential has been broken. This document may have been tampered with.
REVOCATION	○	Verification step skipped
VALIDITY	✓	The credential is still valid.
VERIFIED	✓	
VERIFICATION FAILED	✗	



SUPPORTING RECOGNITION



Verify the origin

Electronic Seals provide trust in origin



Structured data

A single way of providing data. Improve the understanding of information and interoperability through the use of a single datamodel for learning related information (European Learning Model)



Multilingual by default

Provide and navigate content in 29 different languages



Interoperability

Aligned with existing frameworks (EQF/NQF, ISCED-F, ESCO micro-credentials recommendation, etc)



Accreditation

Instantly verify whether an institution is accredited to award a certain qualification



HIGHLIGHT KNOWLEDGE & SKILLS



Data-rich credentials



Showcase learning outcomes and skills



Include activities, grades, achievements, entitlements...



Navigate for further information

The screenshot displays a digital credential for a 'Master of Science in Civil Engineering' from the Faculty of Civil Engineering, Architecture and Geodesy. The interface includes a navigation menu on the left with items like 'Kia Likitalo', 'Certificado TEST Sello Electronico', and various courses. The main content area shows the program title, faculty name, contact information (info@unig.hr), and identification numbers (Legal ID: HR-12345098765, Other Identifier: Higher education institution, Res4321). It also lists the awarding date (19/09/2019) and a description section. The 'Learning Outcomes' section is expanded, showing four outcomes with their types, reusability levels, related ESCO skills, and related skills. For example, LO1 is 'knowledge' related to applied mathematics, while LO2 is a 'skill' also related to applied mathematics. Each outcome has a 'Show less' or 'Show more' toggle.

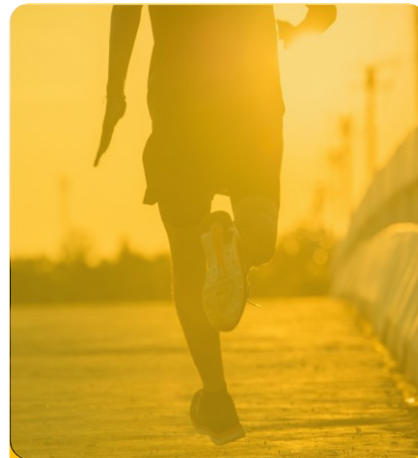


EMPOWERMENT THROUGH DATA OWNERSHIP



**Learner-Centric
Approach**

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Instant Access

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**Bypass
Bureaucracy**

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**Controlled
Sharing**

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MICRO-CREDENTIALS - EXPRESSING ANNEX 1 CONTENT WITH EDC

Mandatory elements:	Identification of the learner
	Title of the micro-credential
	Country/Region of the issuer
	Awarding body
	Date of issuing
	Learning outcomes
	Notional workload needed to achieve the learning outcomes (in ECTS credits, wherever possible)
	Level (and cycle, if applicable) of the learning experience leading to the micro-credential (EQF, QF-EHEA), if applicable
	Type of assessment
	Form of participation in the learning activity
	Type of quality assurance used to underpin the micro-credential
	Optional elements, where relevant (non-exhaustive list)
Supervision and identity verification during assessment (unsupervised with no identity verification, supervised with no identity verification, supervised online, or onsite with identity verification)	
Grade achieved	
Integration/stackability options (standalone, independent micro-credential/integrated, stackable towards another credential)	
Further information	

Ana Andromeda

Issuer

Digital micro-credential creation

Digital micro-credential creation

Learning Provider Show less ^

Legal ID: 0000 Research Alliance ID: Res1818

Learning Outcomes

Communication, collaboration and creativity

Related ESCO Skills
establish collaborative relations , communicate with target community , stimulate creativity in the team

Related Skills
manage findable accessible interoperable and reusable data

Show less ^

Developing digital content

Reusability Level
cross-sector skills and competences

Related ESCO Skills
develop digital content

Related Skills
Developing digital content , Developing digital content Level 4

Show less ^

Achievement information

Volume of Learning 60 hours	EQF Level Level 6	NQF Level IE NQF Level 6
Credit points European Credit Transfer System 2	Learning Settings non-formal learning	Mode of Learning Blended

WHAT IS OFFERED BY THE INFRASTRUCTURE?

Start with [web-based free tools](#)



BUILD

credential templates
in the Online Builder



ISSUE

Seal and award
credentials to owners



STORE

credentials securely in
one wallet



SHARE

credential information
with one click



VERIFY

credential's
authenticity and
validity

Adopt custom-built implementation with [open-source code](#)

DEMO



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HOW TO GET STARTED

1

Start Simple

Think of a simple credential you can pilot with

2

Map your credential data

See what information you have available and how you could include it in a credential

3

Create your credential template

Build your first credential in the [Online Credential Builder](#) without any prerequisites

4

Get your electronic seal

Get your electronic seal from a [Trusted Service Provider](#)

5

Ready to go!

Got your electronic seal? Start [issuing!](#)

Q&A



Still have more questions?

Get in touch at:
EMPL-ELM-SUPPORT@ec.europa.eu

and join our [Futurium Group](#)!

Thank you!