

A top-down view of a collaborative workspace with several people's hands reaching towards the center, surrounded by laptops, notebooks, and coffee cups. The entire image has a blue tint.

# Promoting Interoperability of Learning Information in Europe in the new Europass



- [○ Create CV](#)
- [○ Create Cover Letter](#)

# *europass*

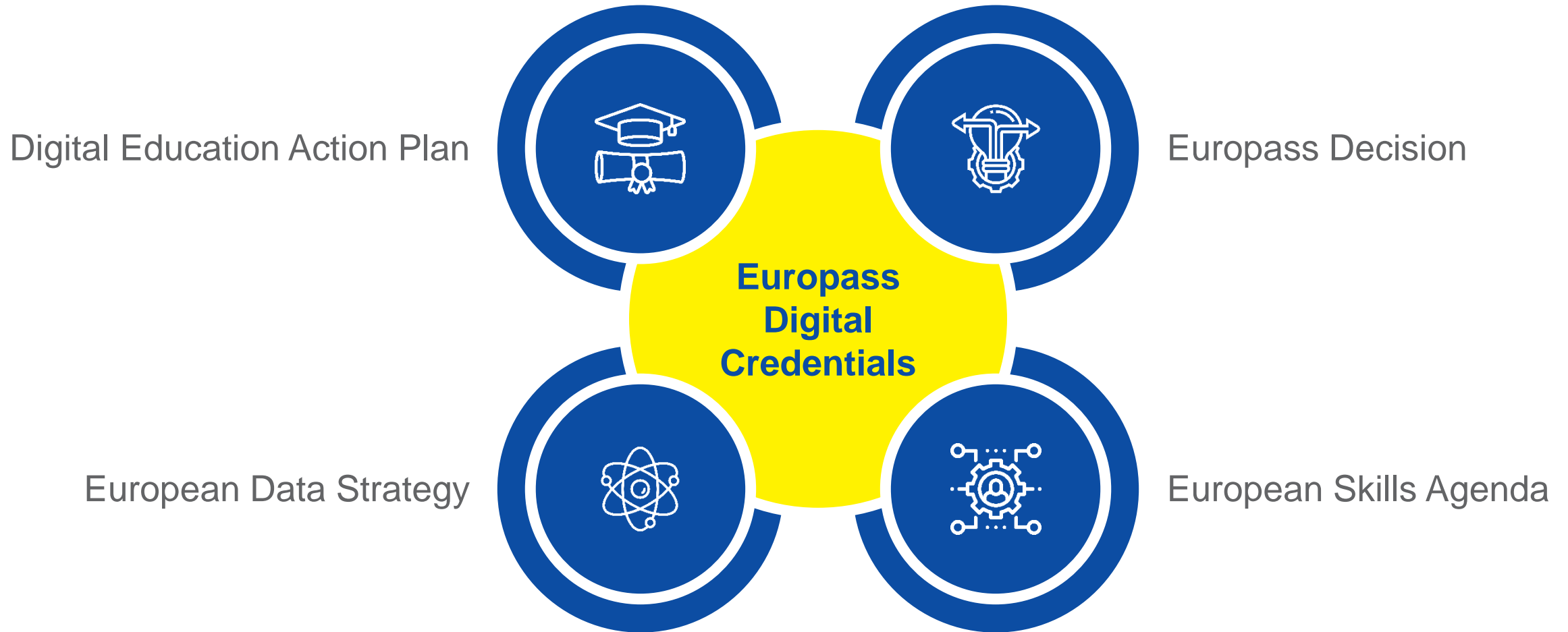
*Take the next step*

Your free, personal tool for learning and working in Europe

[Create your free Europass](#)

[europass.eu](https://europass.eu)

470000 users  
and counting





## Interoperability mechanism

Enables the exchange of information on skills and qualifications amongst different actors.



## E-Portfolio

Support individuals to document and describe their skills, qualifications and experience and to manage their career from a lifelong learning perspective.



## Information Provision

Provide information or links to available information on skills and qualification that helps users to better manager their lifelong career.



## European Digital Credentials Infrastructure (EDCI)

Encompasses technical specifications to implement the framework. It comprise of core building blocks to help operationalize the framework: e-IDAS, Standards, Services and Software

## DESIGN CONSIDERATIONS



Create a **Framework**



No changes to  
existing (soft or hard)  
legislation



Design for  
Interoperability



Member States as primary  
stakeholders  
(Institutions, learners & employers  
as secondary stakeholders)



Valid across the EU



40 year lifetime



Diploma-Mill Proof



Works with existing  
systems in Public  
Service

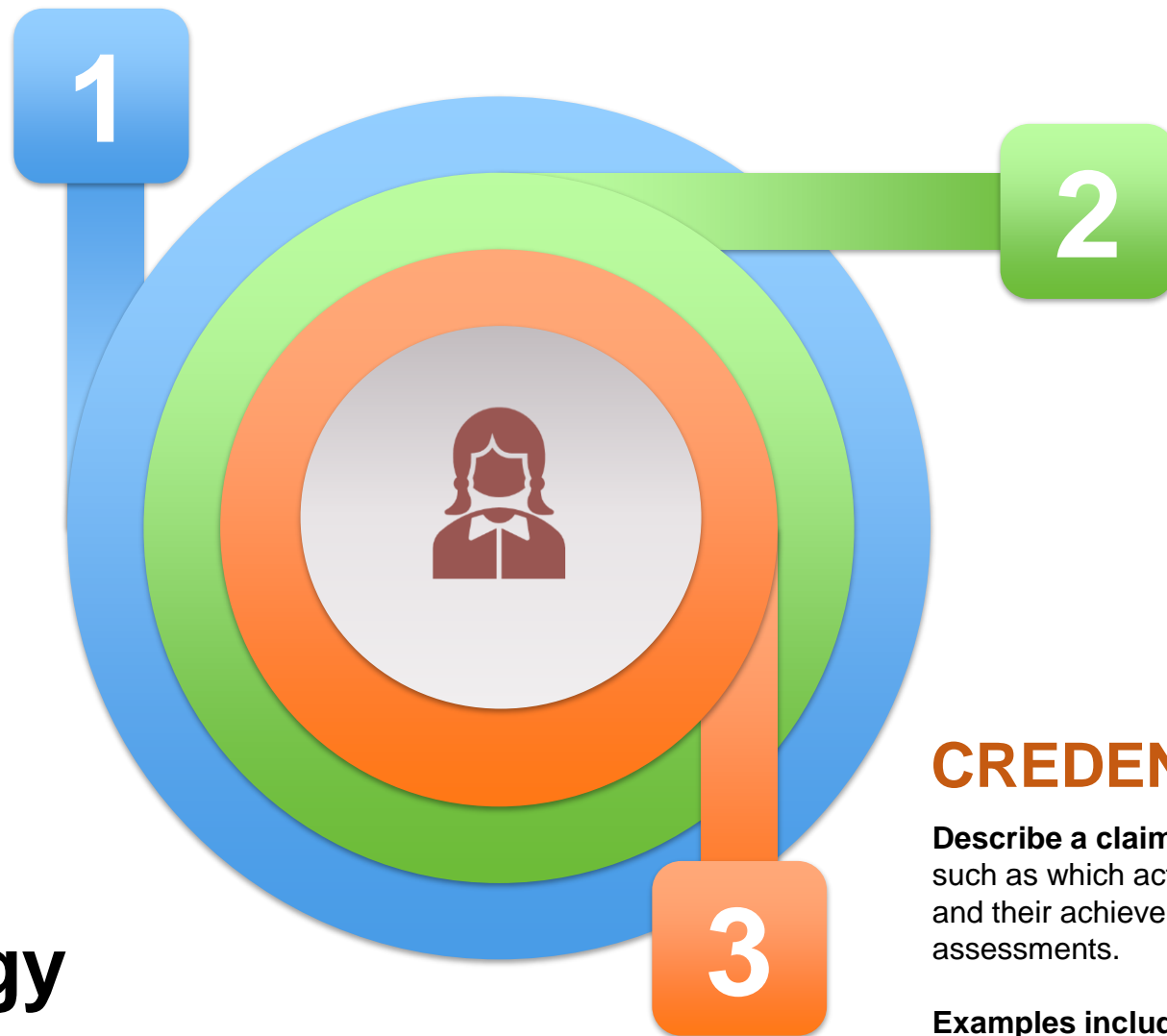


Privacy-Protecting  
but not self-sovereign

## SPECIFICATIONS

specify what can be learned, what can be done and how it can be assessed.

Examples include:  
occupational profiles, competence frameworks, curricula, skill classifications



## OPPORTUNITIES

Describe an offer by an organization to direct an activity which leads to a learning outcome (proven by an assessment)

Examples include:  
courses, apprenticeships, voluntary experiences, etc.

## CREDENTIALS

Describe a claim about an individual such as which activities they have done, and their achievements proven by assessments.

Examples include: attendance certificate, degree, diploma supplement, letter of recommendation

# A Basic Ontology of a Lifecycle Concepts

## IMPLEMENTATION OF THESE CONCEPTS

### Specifications

- ESCO Skill Taxonomy
- Europass Database of Qualifications

### Opportunities

- Europass Database of Learning Opportunities

### Credentials

- Europass Digital Credentials

## COMPONENTS OF A FRAMEWORK

### Standards

### Services

### Software

eIDAS



Integrate

Europass



Develop

W3C VC



Integrate



# A Europass credential

A Europass credential contains information about



**Metadata**  
(data about the credential)



**Issuer**



**Subject**  
(claims about person)



**eSeal**

describes claims relates to



**Activities**



**Achievement**



**Entitlements**



**Attestation**



**Learning Outcomes**



**Assessment**

150 hours of coursework

100 hours of apprenticeship

DE Qualification as a Painter

LO of skill of painting

Final Examination Grade B

Entitlement to work as a painter

Recognition of qualification in FI

# VERIFICATION CHECKS



## Rules for Verification of Authenticity

- ✓ Has the credential been issued according to the standard specified for that credential-type? (technical check of XML file for validity)?
- ✓ Did the awarding body really issue the certificate? (check of the e-seal)
- ✓ Is the credential still valid? (check against expiry information embedded in certificate)
- ✓ Has the certificate been revoked? (check against revocation list)



## Rules for Verification of Identity

- Where a credential-holder chooses to authenticate themselves to the **EDCI Viewer** software using a qualified electronic signature, the following check will be performed:
- ✓ Is the person presenting the certificate the recipient? (comparison of personally identifiable information embedded in the certificate with that of wallet-holder)



## Rules for Verification of Accreditation

- Where the credential being verified is an accredited qualification, the following additional check must be performed:
- ✓ Is the awarding body authorised to issue the qualification? (check against **EDCI Accreditation database**)

# OSVEDČENIE o úplnej kvalifikácii

Valid From: 04/07/2018 00:00 GMT +0200 | Type: Generic



[Credential Preview](#)

[Export](#)

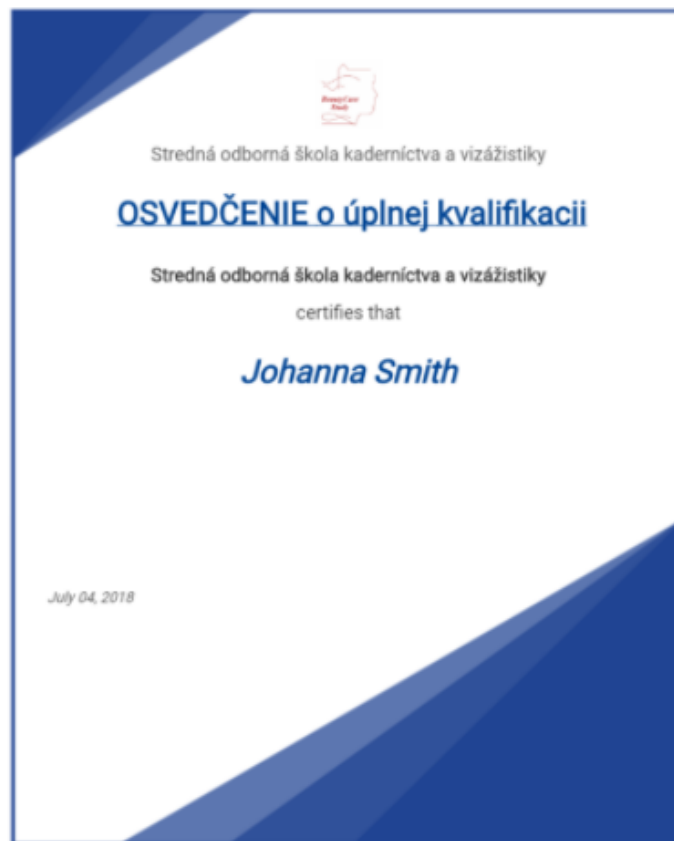
[Upload another credential](#)

[Share](#)

English

Issuing Organisation

Credential Owner



## Authentication and Verification Check

- FORMAT**  
This credential is technically valid.
- SEAL**  
The credential is Sealed. This credential has not been tampered with since it was issued by Stredná odborná škola kaderníctva a vizážistiky;SNCA3;KCA NBU SR 3, on 8/25/20 2:34 PM.
- REVOCAATION**  
Verification step skipped
- ACCREDITATION**  
Verification step skipped
- VALIDITY**  
The credential is still valid.

## Digital Credentials Infrastructure

### Standards

1. Europass learning model  
(Linked to W3C VC)

### Services

1. Issuer
2. Wallet
3. Viewer
4. Accreditation DB

### Software & Support

1. eidas & europass code  
libraries
2. playground & API library
3. Helpdesk

## WHAT THE EDCI IS

- a standardised format for digitally certifying and attesting learning, irrespective of its source, in a secure way;
- a mechanism for the credential owner to store and share records of their own learning;
- a set of tools to enable the implementation of the standard; and
- a facilitator of credential interoperability.

## WHAT THE EDCI IS NOT

- a new way of describing learning – it is entirely based on existing recognition instruments;
- a mechanism for sharing information between educational institutions (e.g. for mobility);
- a platform for experimenting with new technology; or
- a set of rules for institutions or member states.



## MORE INFORMATION

Data Model Github:

<https://github.com/european-commission-europass/Europass-Learning-Model>

Interoperability Portal:

<https://europa.eu/europass/en/europass-digital-credentials-interoperability>

## Digitally-Signed Credentials

Europass Digital Credentials are electronically sealed digital records given to a person to certify the learning they have undertaken. They can be awarded for formal education, training, online courses, volunteering experiences and more.

Credentials for Citizens

Credentials for Issuers

### Credentials for Issuers

Europass Digital Credentials are electronically sealed digital records given to a person to certify the learning they have undertaken. They can be awarded for formal education, training, online courses, volunteering experiences and more. By using this free online tool, any organisation can issue degrees, diplomas, certificates of participation or other learning credentials. Credentials will be secured by the organisation's qualified e-Seal, and securely delivered to their earners.

#### Prepare

1

If you are new to this page, click on the grey button below to find more information about credential data preparation. To ensure that you can seal your credentials later in the process, press the blue "Test your Seal Creation Device" button.



Test your e-seal



How to prepare your data

#### Build

2

There are two alternative approaches to creating Europass Digital Credentials. If you would like to issue a large number of credentials, use the blue buttons below to select and download the type of credential template you would like to use. Then enter your data on the various tabs of the spreadsheet, save your file and move on to the "Upload" section. For issuing a small number of credentials you may prefer to use the Online Credential Builder.



Online Credential Builder



Download your XL & template

#### Upload

3

If you have your credential data prepared, upload the file and move on to the next step of reviewing and digitally sealing your credentials.



Upload XL & spreadsheet

No more than: 5 MB  
Accepted file formats:  
XLSX



Upload XML

No more than: 5 MB  
Accepted file format:  
XML



# Thank you!

**Additional feedback is welcome at:**

<https://ec.europa.eu/futurium/en/europass/dscpilots>

[EMPL-EUROPASS@ec.europa.eu](mailto:EMPL-EUROPASS@ec.europa.eu)