



Workshop: How to Issue Digital Credentials

Insights from the DocTalent4EU Project

J.P.Pêgo

October 29th, 2024 (10:00 AM - 11:30 AM CET)

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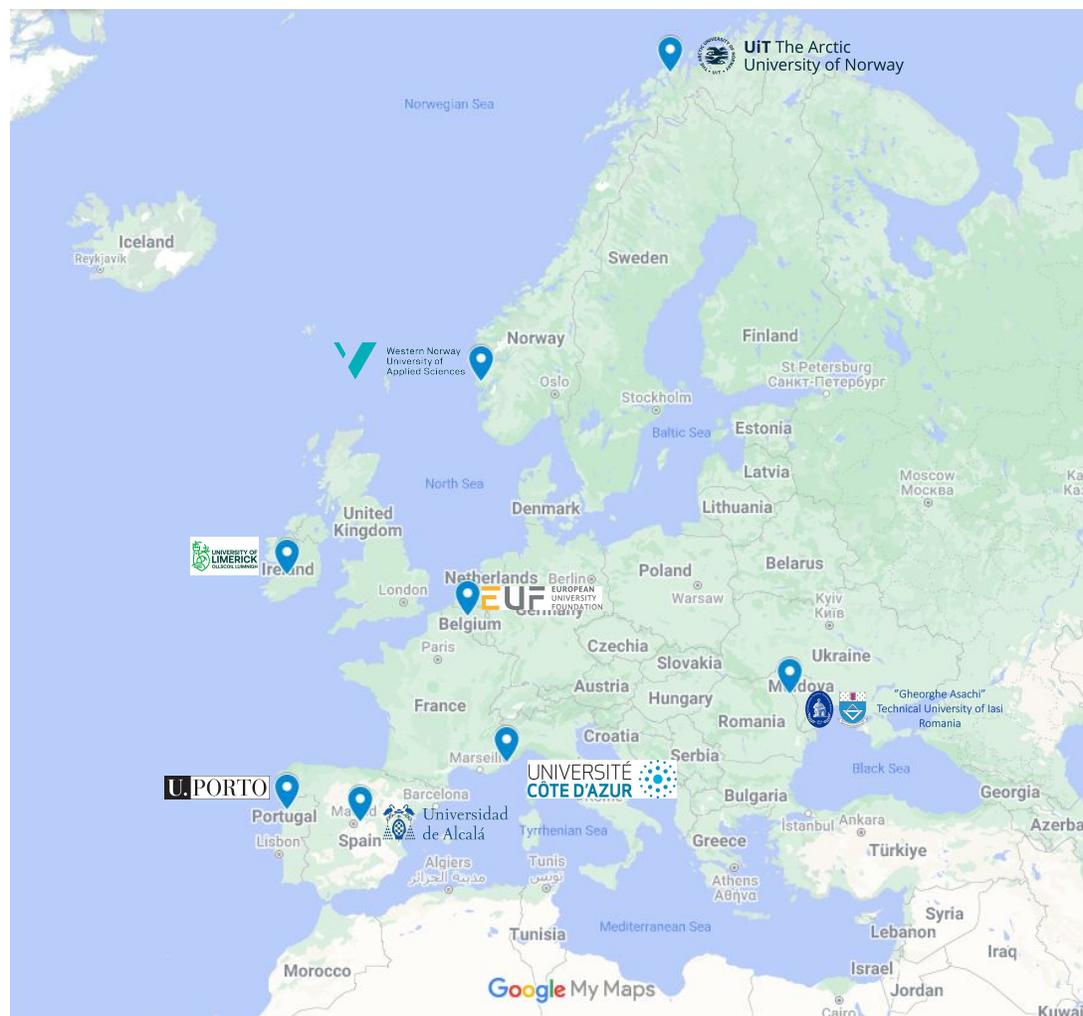


**Funded by
the European Union**

Agenda

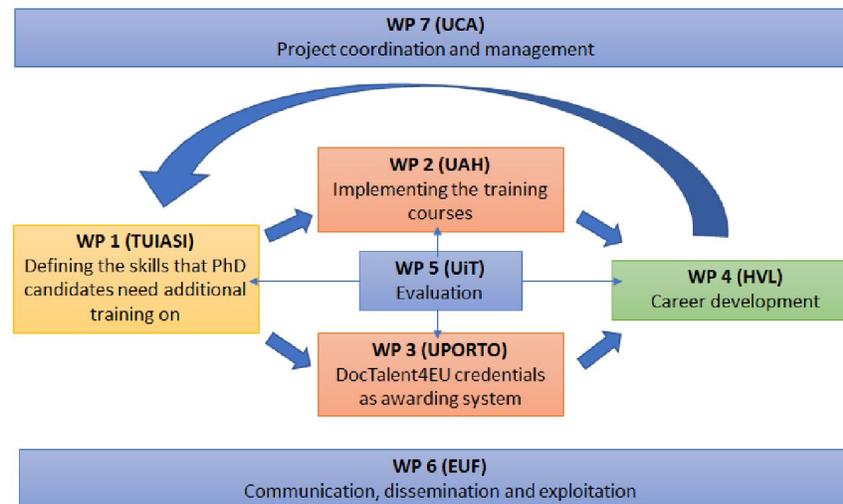
- Introduction
- The Role of Digital Credentials in Doctoral education
- How to Issue DocTalent4EU Digital Credentials: a Step-by-step Tutorial
- Adopting Digital Credentials in Doctoral Education: What You Need to Know
- Q&A
- Conclusions

DocTalent4EU consortium

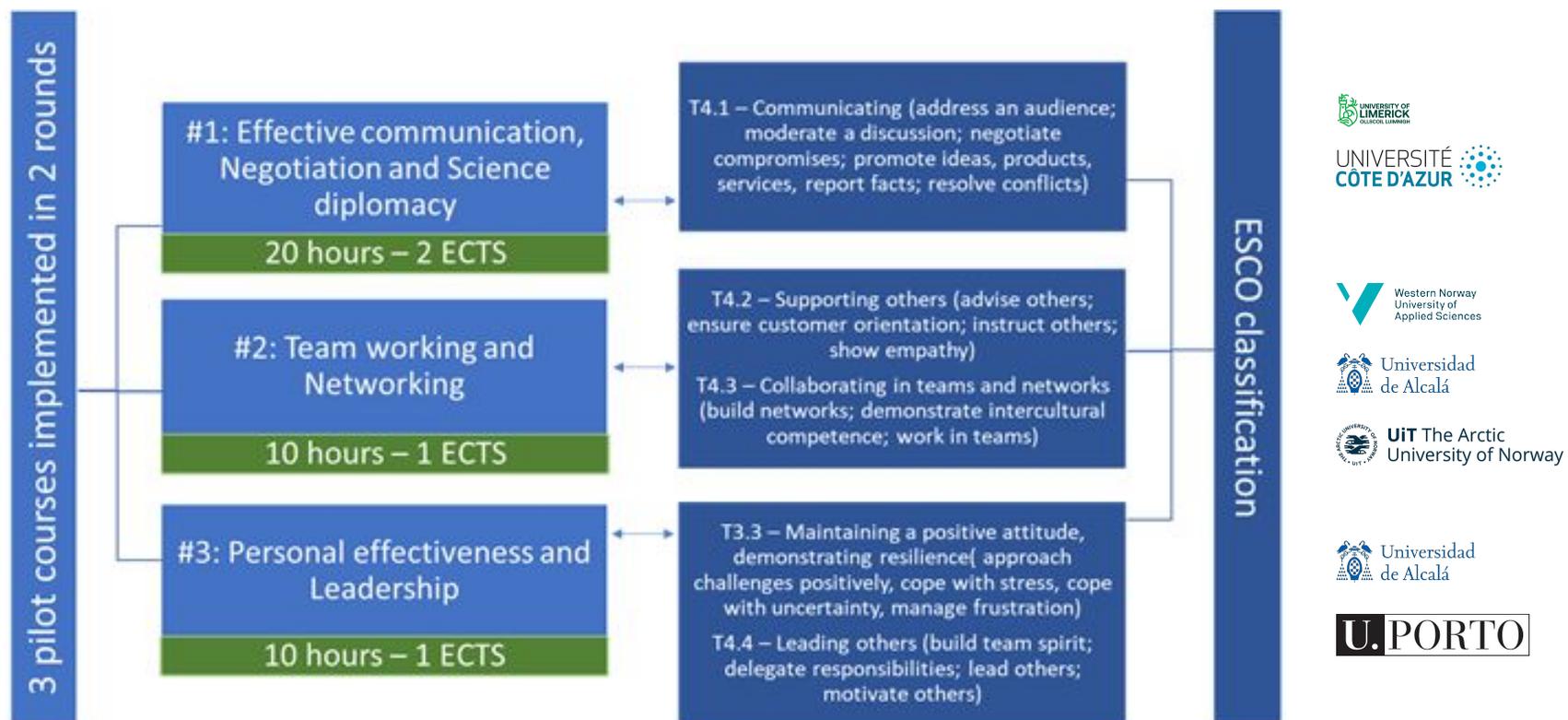


DocTalent4EU mission

Enhance PhD employability through a strong, visible and innovative recognition system of the most in-demand transferable skills that ECRs acquire through their doctoral training and research activities.



Training courses

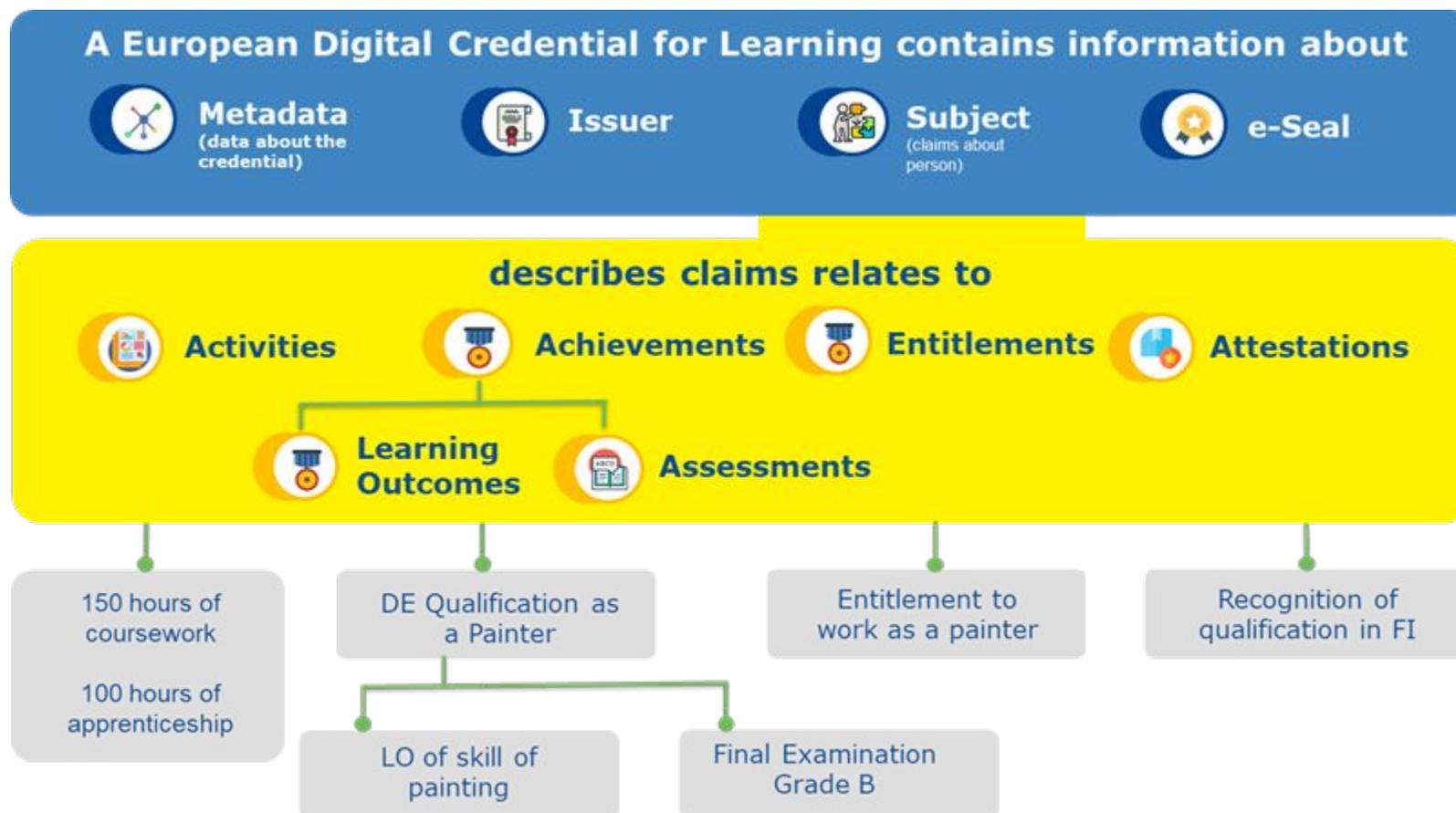


The Role of Digital Credentials in Doctoral Education

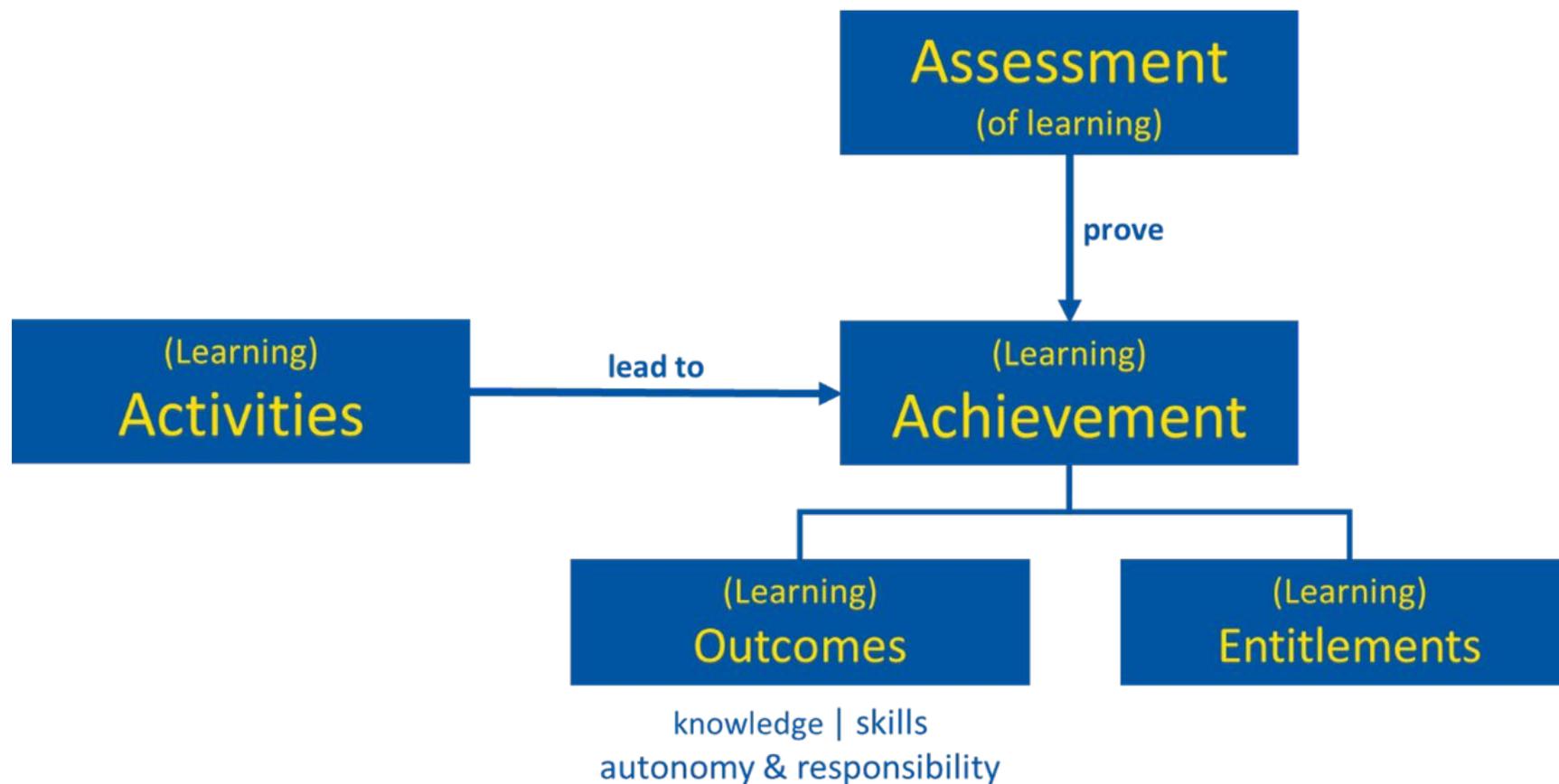
European Digital Credentials for learning (EDCs)

- Standardised **tamperproof** electronic documents
- Describing their owner:
 - has **specific skills** or has **achieved specific learning outcomes**
 - **formal, non-formal** or **informal** learning context.
- They can describe:
 - **activities** (e.g., classes attended)
 - **assessments** (e.g., projects)
 - **achievements** (e.g., skills developed),
 - **professional entitlements** (e.g., registration as a medical doctor) and
 - **qualifications**.

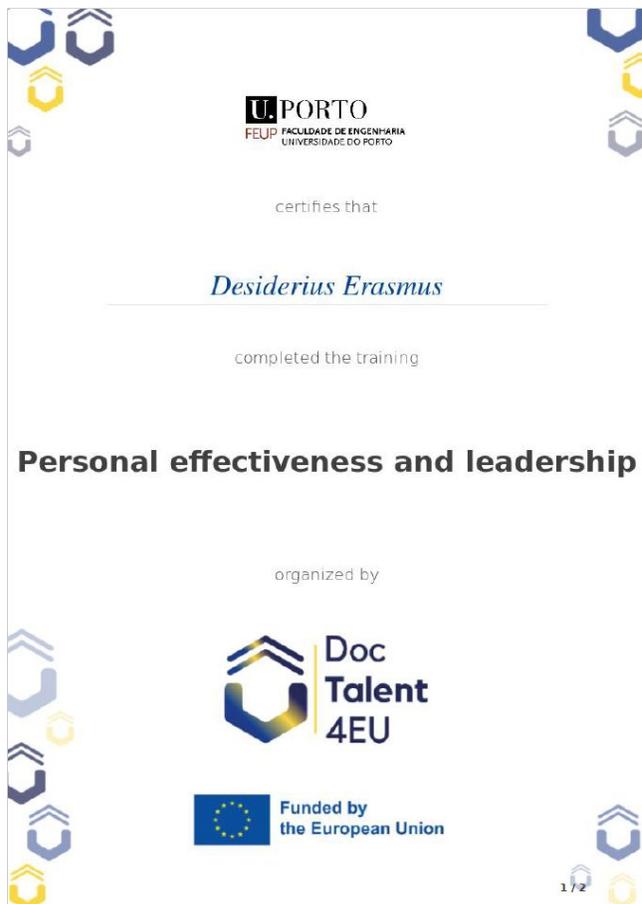
European Digital Credentials for learning (EDCs)



Learning achievements



DocTalent4EU DC



U.PORTO
FEUP FACULDADE DE ENGENHARIA
UNIVERSIDADE DO PORTO

certifies that

Desiderius Erasmus

completed the training

Personal effectiveness and leadership

organized by



**Doc
Talent
4EU**



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the European Union

1 / 2

Authentication and Verification Check

This document is not an authenticated copy of the original verifiable credential. Please scan the QR code or follow the unique URL at the bottom of this page to access the original credential, and to run the authentication and verification checks.

- FORMAT**
This credential is technically valid.
- SEAL**
The credential is Sealed by FACULDADE DE ENGENHARIA DA UNIVERSIDADE DO PORTO. This credential has not been tampered with since issue.
- REVOCACTION**
Function under development. Contact the awarding body for information about this credential's revocation status.
- ACCREDITATION**
Accreditation does not apply to this Credential
- VALIDITY**
The credential is still valid.
- VERIFIED**



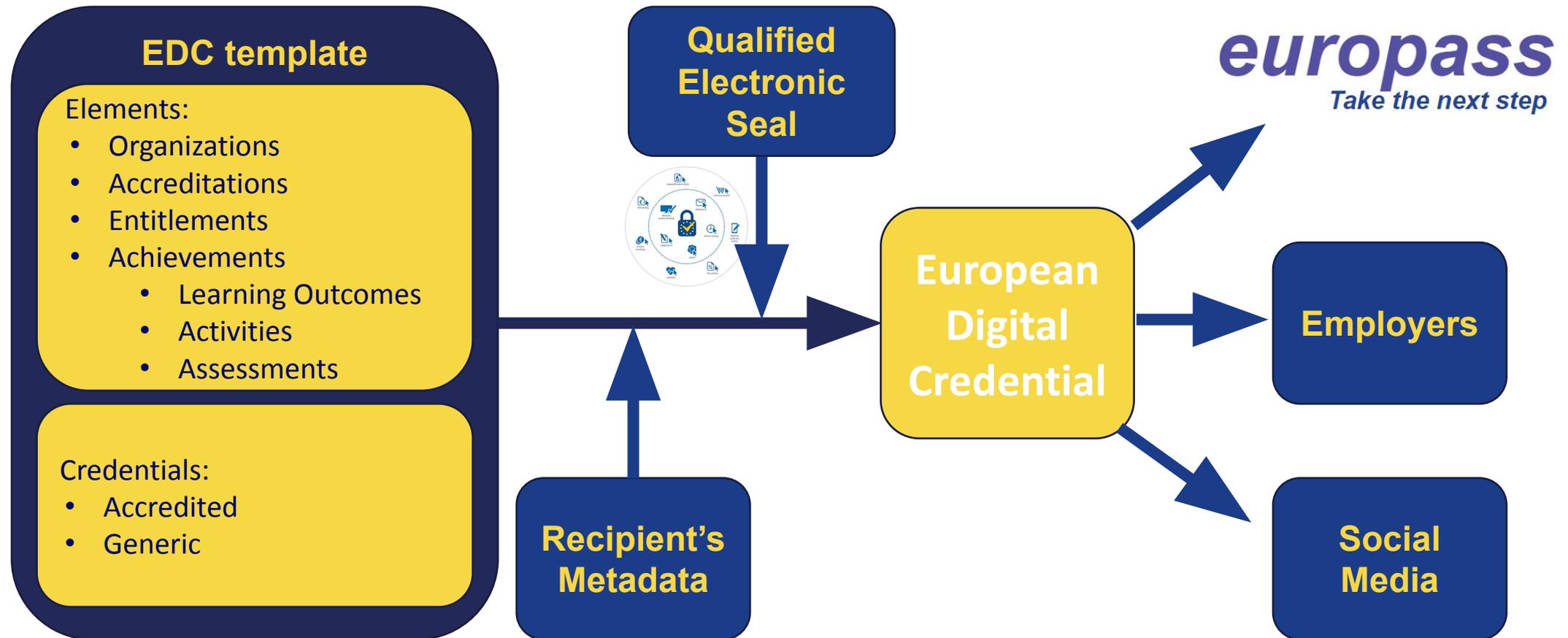
Expiry date: 30/04/2024

<https://europa.eu/europass/digital-credentials/viewer/#shareviewicrfNjFyWTXMT7cP>

How to Issue DocTalent4EU Digital Credentials: a Step-by-step Tutorial

How to issue EDC

Online Credential Builder



Qualified Electronic Seal

- Issued to institutions (not for individual persons)
- Associated with the VAT number

	ACIN iCloud Solutions, Lda	QCert for ESig	QCert for ESeal	QWAC	QTimestamp	Cert for ESig	Cert for ESeal		
	DigitalSign - Certificadora Digital	QCert for ESig	QCert for ESeal	QVal for QESig	QVal for QESeal	QTimestamp	Cert for ESig	Cert for ESeal	Timestamp
	ECCE	QCert for ESig	QCert for ESeal	QTimestamp					
	MULTICERT - Serviços de Certificação Electrónica S.A.	QCert for ESig	QCert for ESeal	QWAC	QTimestamp	Cert for ESig	Cert for ESeal	WAC	

<https://eidas.ec.europa.eu/efda/tl-browser/#/screen/search/type/2>

Software requirements

- Create a Europass login: <https://europa.eu/europass/en>
- Download [NexU](#). No installation needed.

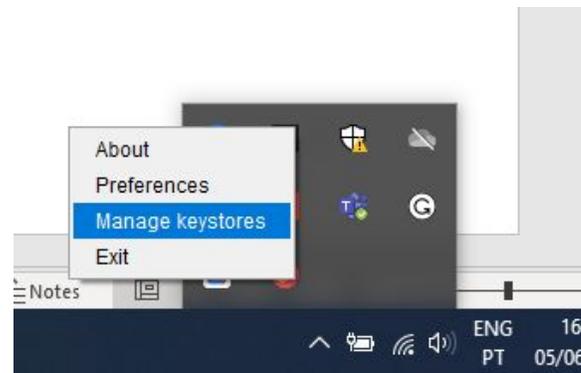
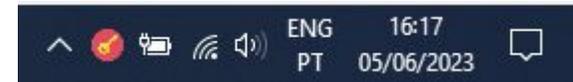
NexU

Decompress the NexU zip file (nexu-bundle-1.22.zip).

Open nexu.jar (you need java installed)

Check for a key icon on your desktop.

Right click and choose “Manage keystores” to show previously stored keys.



Online Credential Builder

The Online Credential Builder allows to create EDC using a browser.

Two environments:

- “Playground” – training using a “mock seal” (no longer possible!)
- “Production” – credential issuing using a qualified electronic seal

Online Credential Builder

Access “[EDCI issuer](#)” and login



Credentials for Citizens

Credentials for Issuers

Credentials for Issuers

Issue degrees, diplomas, certificates of participation or other credentials to your learners. Any school, college, university or training provider in Europe may use this tool to issue credentials for free and secure them with their e-seal. Credentials can be e-mailed to learners or directly deposited to their Europass profiles.

<https://webgate.acceptance.ec.europa.eu/europass/edci-issuer/#/home>

Prepare

1

To issue credentials, you need to obtain a qualified electronic seal. Our test tool will ensure everything is set up properly. Then, follow our tutorial to understand how to prepare your data.



Test your e-Seal

Build

2

The Online Credential Builder allows you to enter your data entirely via the browser. Alternatively, you can export a package from your student information system as JSON-LD.



Online Credential
Builder

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. For further information about the issuing file format, please refer to the [following link](#).



Upload unsigned
credential(s)

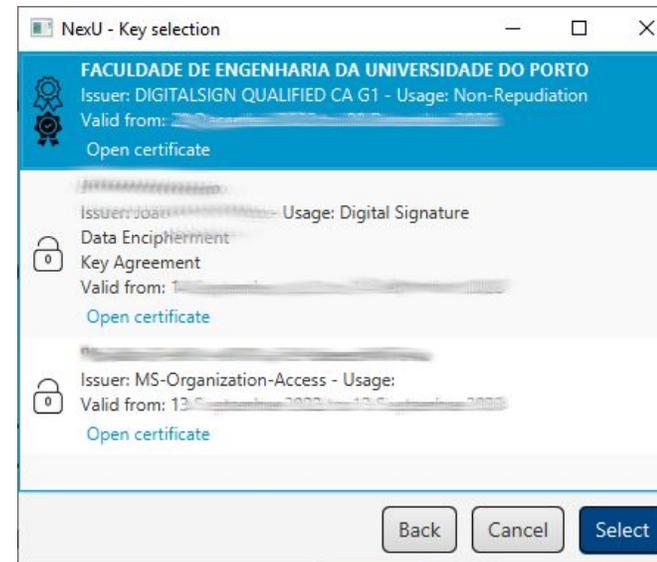
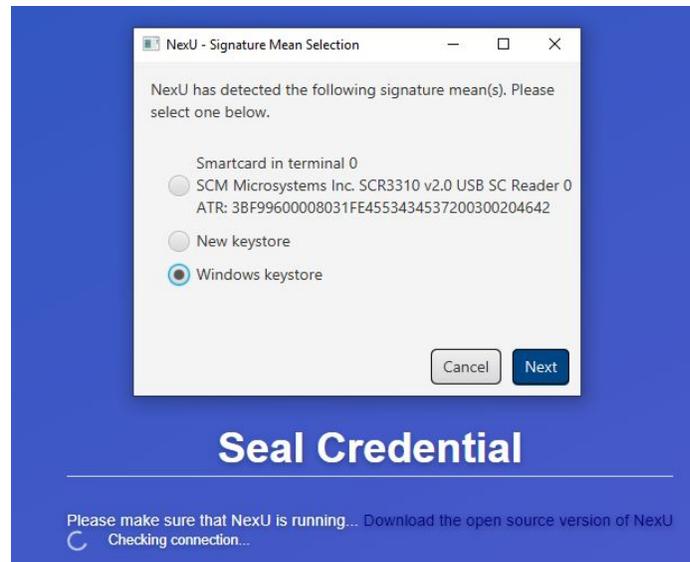
Maximum file size: 15
MB
Accepted file format:
.JSON

Test your e-seal

Click “Test your e-seal”.

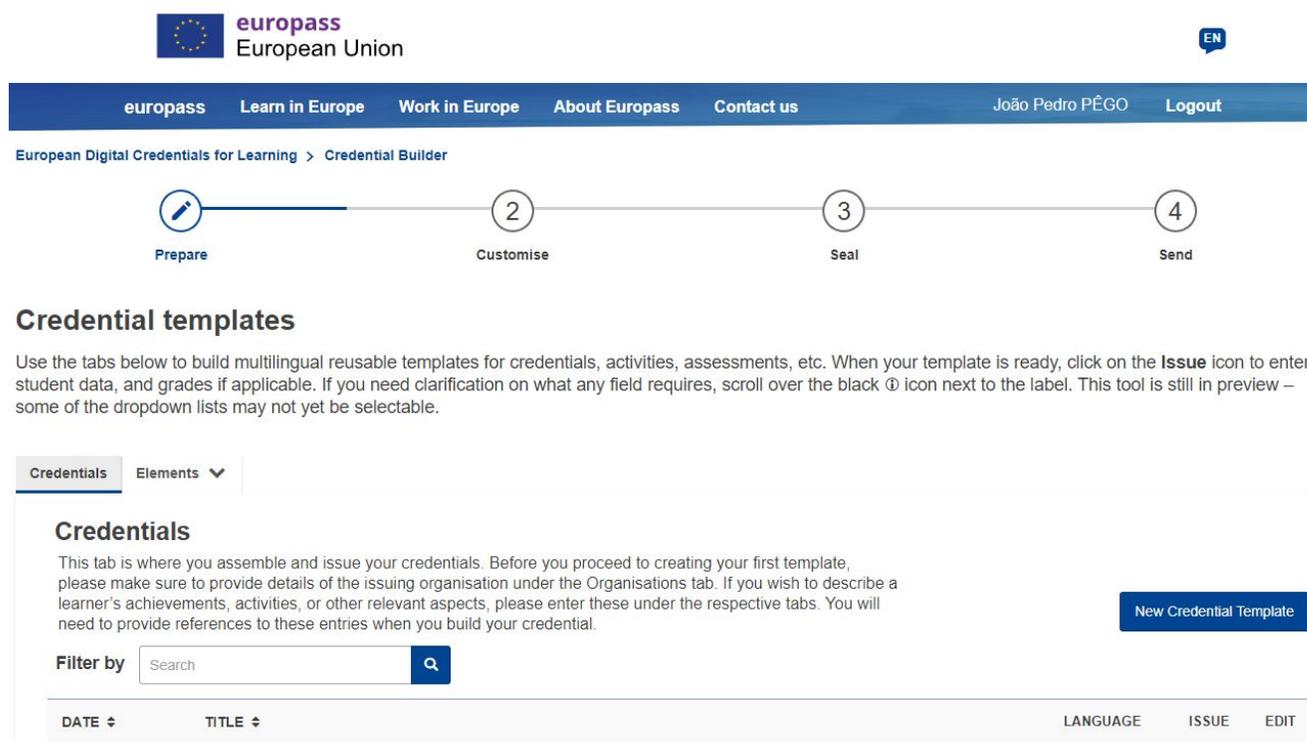
NexU will open. Select “Windows keystore”.

Choose the digital certificate and enter the PIN.



Online Credential Builder

In the “[Production](#)” click “Online Credential Builder”



The screenshot shows the Europass Online Credential Builder interface. At the top, there is the Europass logo and the text "European Union". Below this is a navigation bar with links for "europass", "Learn in Europe", "Work in Europe", "About Europass", and "Contact us". The user's name "João Pedro PÉGO" and a "Logout" button are also visible. A progress indicator shows four steps: "1 Prepare", "2 Customise", "3 Seal", and "4 Send". The "Prepare" step is currently active. Below the progress indicator, there is a section titled "Credential templates" with a paragraph of instructions. At the bottom, there is a "Credentials" tab with a search bar and a "New Credential Template" button. A table with columns for "DATE", "TITLE", "LANGUAGE", "ISSUE", and "EDIT" is partially visible at the bottom.

europass European Union

europass Learn in Europe Work in Europe About Europass Contact us João Pedro PÉGO Logout

European Digital Credentials for Learning > Credential Builder

1 Prepare 2 Customise 3 Seal 4 Send

Credential templates

Use the tabs below to build multilingual reusable templates for credentials, activities, assessments, etc. When your template is ready, click on the **Issue** icon to enter student data, and grades if applicable. If you need clarification on what any field requires, scroll over the black ⓘ icon next to the label. This tool is still in preview – some of the dropdown lists may not yet be selectable.

Credentials Elements

Credentials

This tab is where you assemble and issue your credentials. Before you proceed to creating your first template, please make sure to provide details of the issuing organisation under the Organisations tab. If you wish to describe a learner's achievements, activities, or other relevant aspects, please enter these under the respective tabs. You will need to provide references to these entries when you build your credential.

Filter by Search

DATE TITLE LANGUAGE ISSUE EDIT

New Credential Template

OCB Elements

In the tab “Elements” you can create the elements that constitute an EDC. Start by creating an Organization.

European Digital Credentials for Learning > Credential Builder



Credential templates

Use the tabs below to build multilingual reusable templates for credentials, activities, assessments, etc. When your template is ready, click on the **Issue** icon to enter student data, and grades if applicable. If you need clarification on what any field requires, scroll over the black ⓘ icon next to the label. This tool is still in preview – some of the dropdown lists may not yet be selectable.

Credentials **Elements** ▾

Organisations

An Organisation is a legal person / registered entity that can issue the credential, conduct learning activities or assessments or that acknowledge credential holders' entitlements. [Create New organisation](#)

Filter by 

DATE ↕	TITLE ↕	LANGUAGE	EDIT
05/06/2023	UNIVERSIDADE DO PORTO - UPORTO	EN	⋮
05/06/2023	FACULDADE DE ENGENHARIA - FEUP	EN	⋮

OCB Elements

Fields marked with * are mandatory.

Organization information

Legal name* Common name

Homepage

Logo



Maximum file size: 1 MB
Accepted file formats: .JPEG, .JPG, .PNG

Further Details

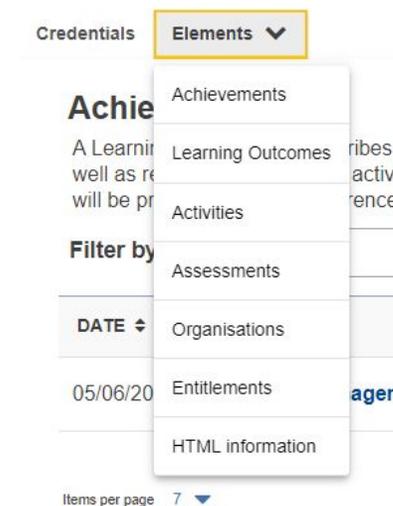
Mandatory legal identifier* eIDAS ID

VAT Number Tax/fiscal ID

OCB Elements

Create the other elements in this order:

- Learning Outcomes
 - Activities
 - Assessments
- } **Achievements**



Achievements are built with the previous elements.

Don't forget to include the ESCO skills in Learning Outcomes!

OCB Elements

The HTML template allows to customize the EDC's first page

Edit Custom HTML

Please provide details about the custom HTML using the data fields below.
Hover over the  icon to see what the expected data/information is.

ENEnglish

HTML information

HTML*

Custom formatting is now only available in Thymeleaf format. If you used XPath references in your old Custom HTML code, these references will need to be updated. Please consult [this document](#) for information on credential preview customisation.

```
<div style="font-style: normal; padding-bottom: 2rem; padding-top: 6rem;">
<div style="flex: 0 0 100%; max-width: 100%; display: block; text-align: center;">

<br />
<p style="margin-top: 0; height: 0; margin-left: 15%; width: 70%; border-bottom: 1px solid #ffff;" />
</p>
<br>
<p style="text-align: center; font-weight: 300; font-family: sans-serif; color: #404040; font-size: 20px;" th:text="{awardedTo}"></p>
<br>
<p style="margin-bottom: 0; text-align: center; font-weight: 300; font-style: italic; color: #004494; font-size: 36px;" th:text="{credential.credentialSubject.givenName} + ' ' + {credential.credentialSubject.familyName}">
</p>
<p style="margin-top: 0; height: 0; margin-left: 15%; width: 70%; border-bottom: 1px solid #cdcdcd;" />
</p>
<br>
<p style="margin-bottom: 0; text-align: center; font-weight: 300; font-family: sans-serif; color: #404040" />
```

Background 



OCB Credentials

In the tab “Credentials ” you can create EDC.

European Digital Credentials for Learning > Credential Builder



Credential templates

Use the tabs below to build multilingual reusable templates for credentials, activities, assessments, etc. When your template is ready, click on the **Issue** icon to enter student data, and grades if applicable. If you need clarification on what any field requires, scroll over the black ⓘ icon next to the label. This tool is still in preview – some of the dropdown lists may not yet be selectable.

Credentials Elements ▼

Credentials

This tab is where you assemble and issue your credentials. Before you proceed to creating your first template, please make sure to provide details of the issuing organisation under the Organisations tab. If you wish to describe a learner's achievements, activities, or other relevant aspects, please enter these under the respective tabs. You will need to provide references to these entries when you build your credential.

[New Credential Template](#)

Filter by

DATE ↕	TITLE ↕	LANGUAGE	ISSUE	EDIT
05/06/2023	Time Management and Personal Organization (advanced module)	EN	▶	⋮

OCB Credentials

An EDC assimilates the previous data (Organization, achievements, activities, ...)

Edit Credential Template

Please provide details about the learning credential using the data fields below. Hover over the **i** icon to see what the expected data/information is.

EN English

Credential Information

Credential Title*
Time Management and Personal Organization (advanc...

Awarding body **i**
FACULDADE DE ENGENHARIA - FEUP × Create new

Description **i**

Further Details

Valid from **i***
14/03/2023 00:00 📅

Expiration date **i**
dd/mm/yyyy hh.mm 📅

Credential Type*
Generic

<https://webgate.acceptance.ec.europa.eu/europass/edci-issuer/#/home>

Claims *

Achievements **i**
Start typing the title of linked achievement × Create new
Time Management and Personal Organization **i**

Activity **i**
Start typing the title of linked activity × Create new
In person training **i**

Entitlements **i**
Start typing the title of linked entitlement × Create new

Assessments **i**
 × Create new
Time Management and Personal Organization (Written Exam) **i**

Please fill in at least one of the properties in this section

More information

HTML information **i**
DocTalent4EU - NEW × Create new

Identifiers **i**
Scheme Name Content + Add

Tag **i** Type a tag to your credential × Cancel Save

OCB Credential issuing

In the tab “Credentials ” click “ISSUE”

European Digital Credentials for Learning > Credential Builder



Credential templates

Use the tabs below to build multilingual reusable templates for credentials, activities, assessments, etc. When your template is ready, click on the **Issue** icon to enter student data, and grades if applicable. If you need clarification on what any field requires, scroll over the black ⓘ icon next to the label. This tool is still in preview – some of the dropdown lists may not yet be selectable.

Credentials Elements ▾

Credentials

This tab is where you assemble and issue your credentials. Before you proceed to creating your first template, please make sure to provide details of the issuing organisation under the Organisations tab. If you wish to describe a learner's achievements, activities, or other relevant aspects, please enter these under the respective tabs. You will need to provide references to these entries when you build your credential.

New Credential Template

Filter by 🔍

DATE ↕	TITLE ↕	LANGUAGE	ISSUE	EDIT
05/06/2023	Time Management and Personal Organization (advanced module)	EN	➤	⋮

OCB Credential metadata

Click “Enter recipient Data in Browser”

European Digital Credentials for Learning > Credential Builder > Fields Selection



Select recipient Data

Select the properties which are different for every recipient. If you have already entered the data on the previous screen, and the same applies to all recipients, do not select the fields here.

Personal Data	▼
Credential Data	▼
Achievement Data	▼
Activity Data	▼
Assessment Data	▼
Entitlement Data	▼

You can enter the recipient data in the browser, or download an Excel or CSV template to fill in the customisable data. Please note that the Recipient Template is credential specific, so you will have to download a new Excel or CSV file for each of your credentials.

[Enter recipient Data in Browser >](#)

[Download Excel Template as XLS >](#)

[Download Excel Template as CSV >](#)

Once you have completed the Excel or CSV template, upload it here



[← Back](#)

OCB Credential metadata

Enter the recipient's data. Click "Next"

European Digital Credentials for Learning > Credential Builder > Fields Selection > Issuing Data



Enter recipient Data

Add as many Recipients as you need to issue the credential. All data entered on this screen will not be stored after the credentials are issued.

1. Recipient

Personal Data

Given name *	Family name
<input type="text" value="Desiderius"/>	<input type="text" value="Erasmus"/>
Delivery (Email or Wallet) Address *	Second Delivery Address
<input type="text"/>	<input type="text"/>

[+ Add Another Recipient](#)

I confirm that my organisation's data protection policy allows me to share this data with Europass for the duration of the session, for the purpose of creating and issuing credentials.

OCB Credential sealing

Select the recipient and click “SEAL”

European Digital Credentials for Learning > Review



Prepare Customise Seal Send

Review

Before proceeding to **Seal**, check the accuracy of your credentials by previewing them. Click the eye icon under Actions. On sealing, the credentials will be issued and cannot be modified.

[Issue more Credentials](#)

<input checked="" type="checkbox"/>	RECIPIENT	CREDENTIAL TITLE	VALID	SEALED	SENT	ACTIONS
<input checked="" type="checkbox"/>	Desiderius Erasmus	Personal effectiveness and leadership	<input checked="" type="checkbox"/>			Preview Delete

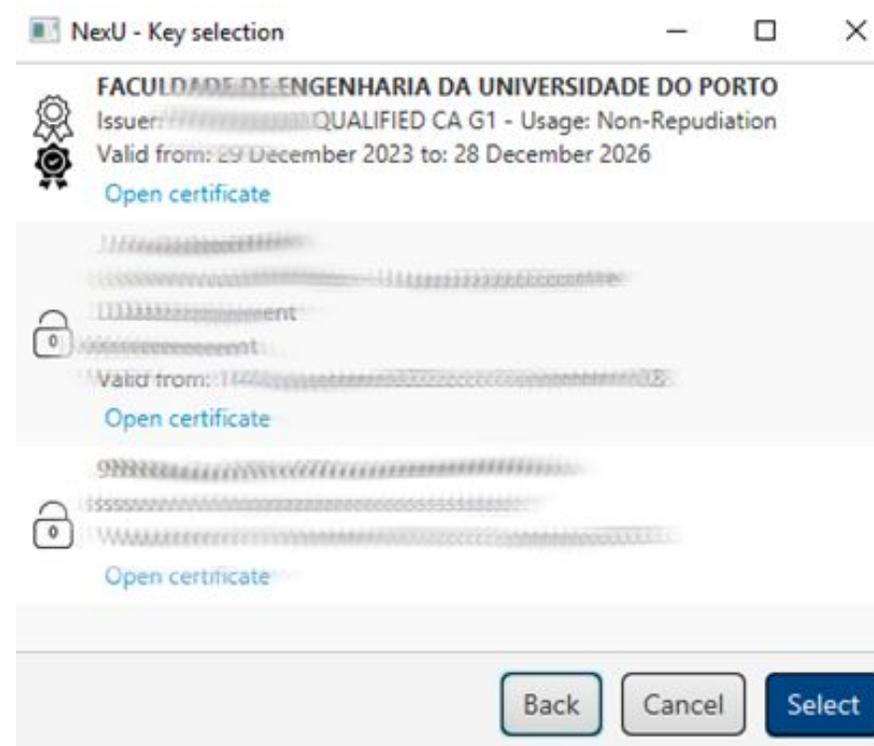
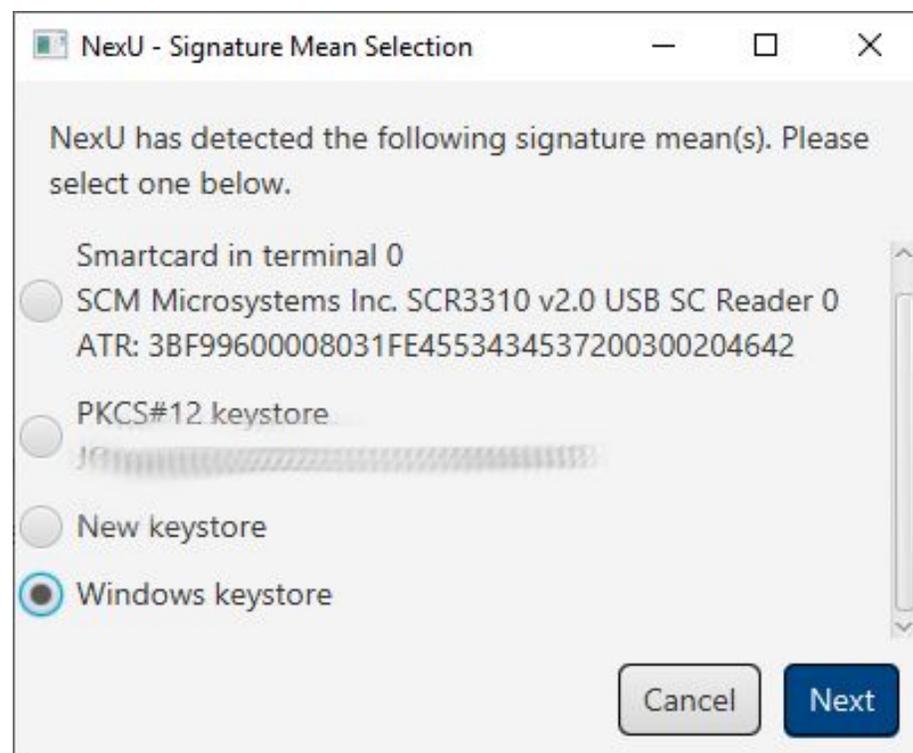
[Download](#) Items per page 5 Showing 1 - 1 of 1 items

I am certifying the authenticity of a credential issued by another organisation

[Previous](#) [Seal](#) [Send](#)

OCB Credential sealing

Choose the previously created seal and provide the password.



OCB Credential sending

Press the send button.

European Digital Credentials for Learning > Review



Prepare Customise Seal Send

Send

Send credentials to the recipients' mailboxes or credential wallets.

[Issue more Credentials](#)

<input checked="" type="checkbox"/>	RECIPIENT	CREDENTIAL TITLE	VALID	SEALED	SENT	ACTIONS
<input checked="" type="checkbox"/>	Desiderius Erasmus	Personal effectiveness and leadership	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/> <input type="checkbox"/>

[Export as CSV](#) Items per page 5 Showing 1 - 1 of 1 items [1](#)

[Previous](#) Seal **Send**

Email with EDC

Your Personal effectiveness and leadership Inbox x

automated-notifications@nomail.ec.europa.eu
to: [redacted]

 Translate to Chinese X

Dear Desiderius Erasmus,



The image shows a certificate template for Desiderius Erasmus. It features the logos of the University of Porto and Doc Talent 4EU. The text on the certificate includes the recipient's name, the title of the credential, and the organizing institution.

You have received a European Digital Credential from FACULDADE DE ENGENHARIA DA UNIVERSIDADE DO PORTO titled: "Personal effectiveness and leadership", please find it enclosed in Json-Ld format. This file contains information about your achievement and can be validated to ensure its authenticity.

To view your credential, first you have to save the attachment, then visit <https://webgate.acceptance.ec.europa.eu/europass/edci-viewer> where you can upload the file to visualise its content. From here you will also be able to print, export and validate the credential.

The Europass Team

One attachment • Scanned by Gmail 



Desiderius Erasm...

EDCI wallet

Me ▾ My Library My Skills My Interests My Applications

My Library ?

[Settings](#) [Back to My Europass](#)

Use the Europass Library to store and organise your documents.

CVs + Add | + Create a CV



There are currently no CV(s) added to your library.

Cover letters + Add | + Create a cover letter



There are currently no Cover Letter(s) that can be edited in your Library

Certificates and diplomas ? + Add



PORTO
FACULTY OF EDUCATION
UNIVERSITY OF PORTO

one that that

Desiderius Erasmus

considered the English

Course on Personal effectiveness and leadership

EDCI wallet

Certificates and diplomas ⓘ



certifies that
Desiderius Erasmus
completed the training

Course on Personal effectiveness and leadership

organized by
Doc Talent 4EU

Course on Personal eff...
European Digital Skills and Competence Framework

- Edit file information
- Share
- Delete

Share

ⓘ You can manage this link in the "My Shared Information" page.

ⓘ Please note that you can receive notifications for this shared link via email and on Europass. If you wish to adapt those notifications, please visit the Settings page.

You are about to share files from your Europass library with a third party.

Please be aware that some recipients, particularly if they are located outside the EU, may not follow data protection rules and procedures. Always ensure you know the identity of any parties you share your information with.

Recipient information ⓘ

Names and organisations

More than one recipients can be added

Reason for sharing

Link

Choose how long the file will be available for. You can change this date in the "My Shared Information" page.

Valid until: *

You can update the expiry date at any time in "My Shared Information" page.

Copy the link to share your file(s)

Generate link

Close

EDCI viewer

Credentials for Citizens
Credentials for Issuers

Credentials for Citizens

View, Verify and Download your Credentials

To view a European Digital Credential for Learning received by e-mail, upload the JSON-LD file here. The credential contains rich data about your accomplishments. The tool will allow you to check the authenticity and validity of the credential, as well as print or download it as pdf. Europass does not store your credential after you close the window. To store your credential in your Europass profile, login to your account here.

[Upload Credential](#)

👁 Credential summary
📄 Export
📁 Upload another credential
🔗 Share
English ▾

👤 Desiderius Erasmus

🏛 Issuer

🏆 Personal effectiveness and leadership ▾



certifies that

Desiderius Erasmus

completed the training

Personal effectiveness and leadership

organized by



Funded by the European Union

« < 1 / 1 ▾ > »

Authentication and Verification Check

- ✔ **FORMAT**
 This credential is technically valid.
- ✔ **SEAL**
 The credential is Sealed by FACULDADE DE ENGENHARIA DA UNIVERSIDADE DO PORTO. This credential has not been tampered with since issue.
- **REVOCACTION**
 Function under development. Contact the awarding body for information about this credential's revocation status.
- **ACCREDITATION**
 Accreditation does not apply to this Credential
- ✔ **VALIDITY**
 The credential is still valid.
- ✔ **VERIFIED**

EDCI viewer

Personal effectiveness and leadership

Issuing date: 19/01/2024 | Valid from: 17/01/2024 | Type: Generic | Credential id: urn:credential:25da8c80-ada3-4455-a509-675b0e195adf
This credential link will expire: 30/04/2024 00:00

[Credential summary](#) | [Export](#) | [Upload another credential](#) | [Share](#) | English

- Desiderius Erasmus
- Issuer
- Personal effectiveness and leadership



certifies that

Desiderius Erasmus

completed the training

Personal effectiveness and leadership

organized by

Doc Talent 4EU

Funded by the European Union

« < 1 / 1 > »

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EDCI viewer

Personal effectiveness and leadership

Issuing date: 19/01/2024 | Valid from: 17/01/2024 | Type: Generic | Credential id: urn:credential:25da8c80-ada3-4455-a509-675b0e195adf
This credential link will expire: 30/04/2024 00:00

[Credential summary](#) | [Export](#) | [Upload another credential](#) | [Share](#) | English

- Desiderius Erasmus
- Issuer
- Personal effectiveness and leadership



certifies that

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« < 1 / 1 > »

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- VERIFIED**

EDCI viewer

 Desiderius Erasmus

 Issuer

 **Personal effectiveness and leadership** 

 Online self-motivated study

 In person training

Personal effectiveness and leadership

FACULDADE DE ENGENHARIA Show less ^

 Faculdade de Engenharia da Universidade do Porto, Portugal

 feup@fe.up.pt

Legal ID	VAT Number
501413197	501413197

Awarding Date
31/01/2024

Description Show less ^

The Doc Talent4EU course on Personal Effectiveness and Leadership is intended to provide doctoral candidates with several essential skills and knowledge required to enhance their self-awareness, productivity, and resilience while developing strong teamwork and leadership qualities. Recognizing that doctoral candidates are often required to navigate complex academic environments and undertake independent research, this course aims, first, to provide them with the tools and strategies necessary to succeed in their academic endeavors; and, second, to strengthen their transversal skills to improve their employability and future integration into the labor market.

The module components cover themes such as:

1. Self-leadership.
2. Build team spirit.
3. Lead others.
4. Motivation.
5. Handling stress.
6. Working with uncertainty.
7. Coping with frustration and failure.
8. Approach challenges positively.
9. Delegate responsibilities.

Learning outcome summary Show less ^

By the end of this course, participants will have gained valuable insights, practical strategies, and a foundation in personal effectiveness and leadership that will support their success as Ph.D. candidates and future leaders in their fields. They will be able to:

1. Develop self-awareness and self-regulation. Encourage participants to reflect on their strengths, weaknesses, and personal values to enhance their self-awareness and identify areas for personal growth.
2. Dealing with stress and uncertainty. Provide strategies and techniques for Ph.D. candidates to effectively face stress and uncertainty during their academic journey.
3. Enhance time management and productivity. Provide techniques and strategies for effective time management, goal setting, prioritization, and overcoming procrastination to maximize productivity during their doctoral journey.
4. Coping with frustration. Develop in participants tips and strategies to help them cope with frustration during their Ph.D., supporting the overcoming of obstacles and the continuous moving forward.

EDCI viewer

Learning Outcomes

Lead others Show more	Self-Leadership Show more
Approach challenges positively Show more	Coping with frustration and failure Show more
Working with uncertainty Show more	Handling stress Show more

Delegate responsibilities
[Show more](#)

Achievement information

Volume of Learning 15 hours	EQF Level Level 8	Learning Settings formal learning
Mode of Learning Presential	Thematic Area Personal skills and development	Language Portuguese English
Maximum Duration 1 month	Type Course	Target groups Persons in tertiary education (EQF 8)

Learning activities

[Online self-motivated study](#) [In person training](#)

Adopting Digital Credentials in Doctoral Education: What You Need to Know

Success factors

- Support from administration
- Communication between involved stakeholders
- Timely acquisition of eSeal (Advanced or Qualified)
- Read documentation carefully
- Use the support team help
- [Futurium group](#)
- Automated issuing of EDC using in-house implementation of the EDCI issuer

Limitations and challenges

- Issued digital credentials are not stored
- EDC templates are bound to individual accounts and environment
- Embedded ESCO skills (recently v1.1.1)
- ResearchComp skills framework
- Incomplete or outdated documentation
- Digital credentials metadata fields limitations (e.g. only integers)



Questions?

ONLINE WORKSHOP

Implementing Local Talent Management Centres in Higher Education

December 4th, 10:00 - 11:30 CET

SAVE
THE
DATE



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Thank you for your attention

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