

Mapping of the Annex I of the Council Recommendation on a European approach to micro-credentials and the European Learning Model

Introduction

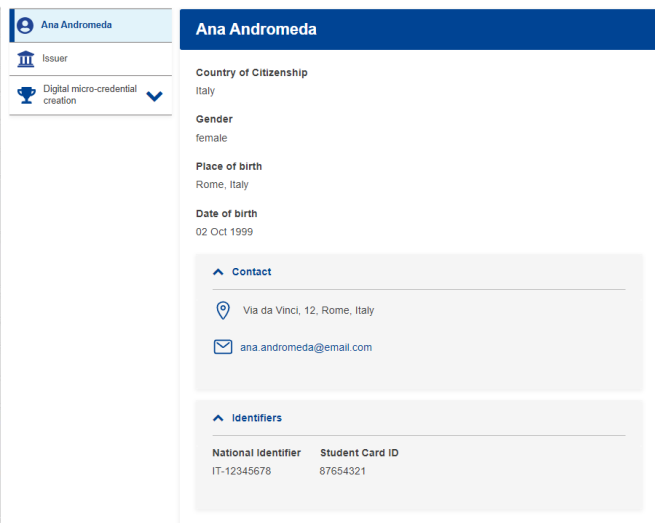
The [Council Recommendation on a European approach to micro-credentials](#) includes a short list of required and optional standard elements to describe micro-credentials. These standard elements are included in the [European Learning Model](#) (ELM). The ELM integrates other elements as well, from a wider range of European standards, such as the [European Qualifications Framework Council Recommendation](#), the [Europass Decision](#), the [Diploma Supplement](#), etc. By providing the tools to build, issue, store and share ELM-based digital credentials, the [EDC infrastructure](#) offers a way to make use of all these existing standards for the provision of information on skills and learning. This document presents a mapping of Annex 1 of the Recommendation to the specific classes and properties of the European Learning Model that express these standard micro-credential elements, including their Thymeleaf references displayed in square brackets with grey background.

Mandatory elements

Identification of the learner

The European Learning Model, and the European Digital Credentials for Learning application profile, permit the identification of a learner, represented by the [Person class](#), by a wide range of properties, including name [`credential.credentialSubject.fullName`], date and place of birth [`credential.credentialSubject.dateOfBirth` and `credential.credentialSubject.placeOfBirth.address[0].fullAddress.noteLiteral`], country of citizenship [`credential.credentialSubject.citizenshipCountry.prefLabel`], email [`credential.credentialSubject.contactPoint.emailAddress`], registered address [`credential.credentialSubject.location.citizenshipCountry.address[0].fullAddress.noteLiteral`], various identifiers [e.g. `credential.credentialSubject.nationalID.notation`], etc.

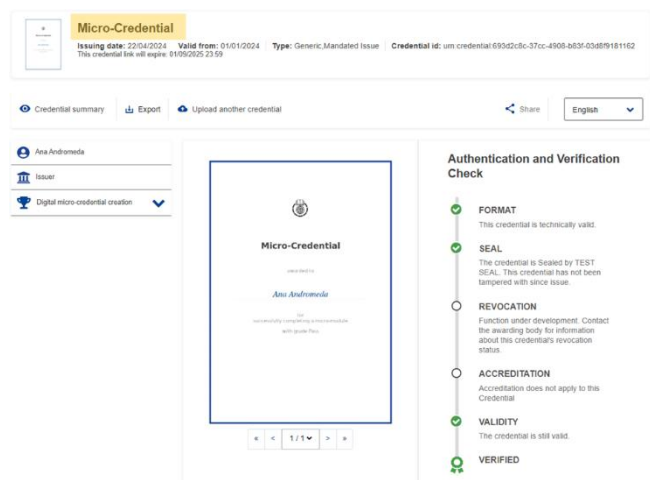
Mandatory elements:	Identification of the learner
	Title of the micro-credential
	Country/Region of the issuer
	Awarding body
	Date of issuing
	Learning outcomes
	Notional workload needed to achieve the learning outcomes (in ECTS credits, wherever possible)
	Level (and cycle, if applicable) of the learning 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	



Title of the micro-credential

The title of the micro-credential, represented by the [European Digital Credential class](#), can be referenced by the `[credential.displayParameter.title]` code in the JSON file.

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Country/Region of the issuer

The issuer is the [Organisation](#) that applies its advanced or qualified electronic seal to the credential. Through this signature, or seal, the issuing organisation certifies the authenticity of the credential, and the correctness of origin of each claim contained within. The country of the issuer `[credential.issuer.location.address.countryCode.prefLabel]` is data contained in, and referenced from, the issuing organisation's electronic seal at the time of sealing the credential. Note that the

issuing organisation may, or may not, be the same organisation as the one awarding the claims contained in the credential. In many use-cases Organisation A may seal credentials on behalf of Organisation B.

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Ana Andromeda

Issuer

Digital micro-credential creation

Awarding bodies

Learning Provider

Signed by

ORGANIZACION TEST

Also known as
TEST SEAL

Legal address
Spain

Seal validation information
✔ The credential is Sealed. This credential has not been tampered with since it was issued by TEST SEALZETES TSP ROOT CA 001 ,ZETES TSP CA FOR TSA 001 ,ANF AC Qualified Certificates for eSeal Responder 1466 ,ANF AC Qualified Certificates for eSeal ZETES TSP ROOT CA 001 OCSP responder ZetesConfidens EC Qualified TSU17 ,TEST SEAL ,ANF Global Root CA ., on 4/22/24, 4:21 PM.

Evidence statement
 Every claim inside this credential is to be construed as having been made by the indicated awarding body, who maintains sole responsibility for said claim. By applying its electronic seal, the signing organisation certifies the correctness of origin of each claim, as having been made by the indicated awarding body.

Identifiers

EIDAS Identifier
VATES-A00000000

Awarding body

The awarding body, represented by the [Organisation class](#), can be identified and described by a wide range of properties, including name

[credential.credentialSubject.hasClaim[0].awardedBy.awardingBody[0].legalName], legal and contact addresses [credential.credentialSubject.hasClaim[0].awardedBy.awardingBody[0].location[0].address[0].fullAddress.noteLiteral and credential.credentialSubject.hasClaim[0].awardedBy.awardingBody[0].contactPoint[0].address[0].fullAddress.noteLiteral], logo [credential.credentialSubject.hasClaim[0].awardedBy.awardingBody[0].logo], homepage [credential.credentialSubject.hasClaim[0].awardedBy.awardingBody[0].homepage], various identifiers, [e.g. credential.credentialSubject.hasClaim[0].awardedBy.awardingBody[0].identifier[0].notation], etc.

Note that the awarding body may, or may not, be the same organisation as the one sealing the credential. In many use-cases Organisation A may seal credentials on behalf of Organisation B.

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Ana Andromeda

Issuer

Digital micro-credential creation

Awarding bodies

Learning Provider

Learning Provider

Also known as
LProv

Homepage
https://learningprovider.edu

Legal address
Instant Street 16, D08 Dublin, Ireland

Member of
Research Alliance (info@resa.org)

Identifiers

Legal ID 0000	Research Alliance ID Res1818
------------------	---------------------------------

Signed by

ORGANIZACION TEST

Also known as
TEST SEAL

Date of issuing

The issuing date is the date on which the [European Digital Credential](#) was sealed and sent by the issuing organisation [credential.issued]. Note, that this date is different from the credential's valid from date, a distinct credential property that expresses the earliest date when the information associated with the credential subject became valid.

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Micro-Credential

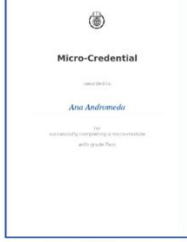
Issuing date: 22/04/2024 Valid from: 01/01/2024 Type: Generic/Mandated Issue Credential id: urn:credential:693d2c9c-37cc-4908-b83f-03b89181162
This credential link will expire: 01/09/2025 23:59

Credential summary Export Upload another credential Share English

Ana Andromeda

Issuer

Digital micro-credential creation



Micro-Credential

Ana Andromeda

Authentication and Verification Check

- ✔ **FORMAT**
This credential is technically valid.
- ✔ **SEAL**
The credential is Sealed by TEST SEAL. 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**

Learning outcomes

[Learning Outcomes](#) [credential.credentialSubject.hasClaim[0].specifiedBy.learningOutcome], that can contain direct references to concrete knowledge, skill and/or competence concepts from controlled vocabularies such as e.g. the [ESCO skill taxonomy](#)

[credential.credentialSubject.hasClaim[0].specifiedBy.learningOutcome[0].relatedESCOSkill[0].prefLabel] or [Digital Competence Framework](#) [credential.credentialSubject.hasClaim[0].specifiedBy.learningOutcome[0].relatedSkill[0].prefLabel], can form part of Learning Achievement claims included in a European Digital Credential for Learning. Note, that the [Learning Achievement Specification class](#) also has a property titled learning outcome summary [credential.credentialSubject.hasClaim[0].specifiedBy.learningOutcomeSummary], that allows the collective description of all learning outcomes with simple text.

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Notional workload

The notional workload to achieve the learning outcomes specified in the micro-credential can be expressed in the number of [credit points](#) assigned to the [Learning Achievement Specification](#) from within a specific credit point framework [credential.credentialSubject.hasClaim[0].specifiedBy.creditPoint[0].point]. Please note, that while higher education institutions should use the European Credit Transfer and Accumulation System (ECTS) and comply with the principles in Annex V to the [EQF Recommendation](#), where possible, providers that do not use the ECTS may use other systems or types of information that can effectively describe the workload. An alternative measure of the notional workload can be the estimated number of hours the learner is expected to spend engaged in learning to earn the award [credential.credentialSubject.hasClaim[0].specifiedBy.volumeOfLearning].

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Level (and cycle, if applicable) of the learning experience

Annex 1 of the Council Recommendation specifies that, *if applicable*, the level of the learning experience leading to the micro-credential is a mandatory element of the credential. In the European Learning Model the [Learning Achievement Specification class](#) has an education level property [`credential.credentialSubject.hasClaim[0].specifiedBy.educationLevel`] that can be used to specify this (by e.g. beginner, intermediate, advanced) from within a framework. A sub-class of Learning Achievement Specification, called [Qualification](#), has 2 additional specific properties, namely the EQF level [`credential.credentialSubject.hasClaim[0].specifiedBy.eqfLevel.prefLabel`] and QF level [`credential.credentialSubject.hasClaim[0].specifiedBy.nqfLevel[0].prefLabel`] to express the education level by using the multilingual [European Qualifications Framework](#) and [Qualifications Framework](#) controlled vocabularies.

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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

Type of assessment

The type of assessment, a property of the [Learning Assessment Specification class](#), specifies and describes the potential means to assess a person's learning achievements [credential.credentialSubject.hasClaim[0].specifiedBy.provenBy[0].dcType]. The assessment type can be expressed either by using the multilingual [Assessment type](#) controlled vocabulary, or the credential issuer's own terms.

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	Further information

Ana Andromeda

Issuer

Digital micro-credential creation

EDC building training course

Digital artefact assessment

Digital artefact assessment

Awarded By

Learning Provider Show less

Legal ID: 0000 Research Alliance ID: Res1818

Grade: Pass

Assessment Information

Assessment Type: artefact assessment **Mode of Assessment**: Online **Assessment reliability proven by**: Unsupervised without ID Verification

Grading Scheme

Title: Generic grading

Description: The learner will have passed the assessment upon the successful submission of an ELM standard compliant un-signed sample credential.

Form of participation in the learning activity

The ELM uses the mode property [credential.credentialSubject.hasClaim[0].specifiedBy.influencedBy[0].mode] of the [Learning Activity](#)

[Specification class](#), to describe the form of participation in learning activities. To express the mode of learning, the ELM proposes the use of the [Mode of learning and assessment](#) multilingual controlled vocabulary, or the issuer’s own terms. Please note that the Learning Activity Specification class also has a type property [`credential.credentialSubject.hasClaim[0].specifiedBy.influencedBy[0].dcType`] to categorise and label the activities (e.g. classroom or e-learning coursework, internship, volunteering, etc.) that learners can engage with in order to achieve pre-defined learning outcomes. This property can be expressed either by using the multilingual [Learning activity type](#) controlled vocabulary, or the credential issuer’s own terms.

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The screenshot shows a digital micro-credential interface. On the left, there is a navigation menu with items like 'Ana Andromeda', 'Issuer', 'Digital micro-credential creation', 'EDC building training course', and 'Digital artefact assessment'. The main content area is titled 'EDC building training course' and includes the following information:

- Awarded By:** Learning Provider (with a 'Show less' link)
- Legal ID:** 0000
- Research Alliance ID:** Res1818
- Description:** This online course allows the learner to familiarise themselves with the process of creating ELM standard compliant digital micro-credentials that contain data on all mandatory elements specified in Annex 1 of the Proposal for a Council Recommendation on a European approach to micro-credentials for lifelong learning and employability.
- Activity information:**
 - Volume of Learning:** 4 hours
 - Languages of Instruction:** English
 - Mode of Learning:** Blended
 - Type:** e-learning coursework

Type of quality assurance used to underpin the micro-credential

Some micro-credentials (e.g. of higher education providers), are institutionally linked to formal accreditation records stored in databases, such as the Database of External Quality Assurance Results (DEQAR), while others may incorporate self-attested quality assurance information. To document this information the ELM, and EDCs, utilise the [Accreditation class](#) to express the accreditation’s title [`credential.evidence[0].accreditation.title`], type, e.g. Institutional or Programme License [`credential.evidence[0].accreditation.dcType`], dates when an accreditation decision was made [`credential.evidence[0].accreditation.dateIssued`], or when a review needs to take place [`credential.evidence[0].accreditation.reviewDate`], and the accreditation decision [`credential.evidence[0].accreditation.decision`] in a structured manner. Accreditation properties also allow the identification of the accrediting agent, with the entire subset of [Organisation](#) attributes [`credential.evidence[0].accreditation.accreditingAgent.X1`], and – if applicable – restrictions to thematic areas, jurisdictions, and/or EQF levels [`credential.evidence[0].accreditation.limitField`],

¹ X here could stand for more granular data about an organisation’s name, identifiers, contact details, etc.

[credential.evidence[0].accreditation.limitJurisdiction] and [credential.evidence[0].accreditation.limitEQFLevel] respectively, and more.

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Accreditation

Accreditation name
Institutional review

Accreditation type
Institutional License

Date of accreditation
02/11/2021 00:00

Decision
positive

Accrediting agent
[Redacted]

[Accreditation report](#)

EQF Level of accreditation
Level 6
Level 8
Level 5
Level 7

Review date
02/11/2027 00:00

Related documents
[Assessment report](#)

Optional elements

Prerequisites needed to enrol in the learning activity

Sometimes a micro-credential can only be earned if the learner fulfils certain prerequisites (e.g. had beginner level knowledge before enrolling in an advanced level course). These prerequisites can be expressed by using the Entry Requirement property of the [Learning Achievement Specification class](#) [credential.credentialSubject.hasClaim[0].specifiedBy.entryRequirement].

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	Further information

Ana Andromeda

Issuer

Digital micro-credential creation

EDC building training course

Digital artefact assessment

Digital micro-credential creation

Learning Provider Show more ▾

▼ Learning Outcomes

▼ Achievement information

▲ Learning activities

EDC building training course

▲ Assessed by

Digital artefact assessment

▲ Other information

Alternative Name
Digital micro-credential creation

Entry Requirements Show less ▾

The learner needs to have an EDC Online Credential Builder account, that requires an EU Login ID.

Supervision and identity verification

Credential issuers can use a special [Learning Assessment](#) property [`credential.credentialSubject.hasClaim[0].specifiedBy.provenBy[0].idVerification`] to document what means were applied to ensure assessment reliability. This property can be expressed either by using the multilingual [Method of supervision and verification](#) controlled vocabulary, or the credential issuer's own terms.

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The screenshot displays a user interface for a digital artefact assessment. On the left, a navigation menu includes 'Ana Andromeda', 'Issuer', 'Digital micro-credential creation', 'EDC building training course', and 'Digital artefact assessment'. The main content area is titled 'Digital artefact assessment' and shows the following details:

- Awarded By:** Learning Provider (with a 'Show less' link)
- Legal ID:** 0000
- Research Alliance ID:** Res1818
- Grade:** Pass

Below this, the 'Assessment Information' section includes:

- Assessment Type:** artefact assessment
- Mode of Assessment:** Online
- Assessment reliability proven by:** Unsupervised without ID Verification (highlighted in a yellow box)

The 'Grading Scheme' section shows:

- Title:** Generic grading
- Description:** The learner will have passed the assessment upon the successful submission of an ELM standard compliant un-signed sample credential.

Grade achieved

When an EDC contains a [Learning Assessment](#) claim, the provision of an individual grade [`credential.credentialSubject.hasClaim[0].specifiedBy.provenBy[0].grade`] in the credential metadata is compulsory. Credential issuers are advised to also use the Grading Scheme property to describe how a third-party viewer can interpret a given grade.

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Integration/stackability options

Micro-credentials are designed to be modular so that other micro-credentials may be added to create larger credentials, allowing flexibility in credential composition. While the EDC infrastructure does not currently support the stacking of smaller sealed credentials into a larger aggregated credential, the `hasPart` property of Claims `[credential.credentialSubject.hasClaim[0].hasPart[0].Y2]` allows the demonstration of multiple smaller learning achievements forming part of a larger one, and as such, EDCs can be built to reflect this granularity.

Further information

The [European Learning Model](#) comprises of 50 classes and nearly 500 properties, and European Digital Credentials for Learning can use these interconnected classes and properties to describe any aspect of learning, irrespective of the credential's size, source or formality. While all the classes have their comprehensive array of specific properties, the use of which would allow the provision of further useful information about the credential, most classes also have an `[Z3.additionalNote]` property, that can accommodate any additional details that are not covered distinctly by a particular ELM property.

² Y here could stand for more granular data about a sub-Claim's title, type, awarding body, and other details.

³ Z here stands for the path to the Class, to which the additional note property belongs.