**MicroHE WP4 – A1: Drafting Meta-Data Standard**

**V2: Updated with the Learning Passport Form for Piloting Requirements**

Micro-Credential Meta-data Standard draft

Based on the Qualifications metadata schema, extended with MicroHE.

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| **Property** | **URI** | **Usage note** |
| **Identifier**  **(required)** | adms:identifier | This property refers to an (alternative) identifier of a qualification like a national code or any other unique code issued by some agency and/or system. This can be on any level: an international, national, regional, private or institutional level (e.g. the unique and persistent identifier of the qualification within the publishing system).  (See Identifying Resources and How to work with Identifiers?) |
| **Reference language** | esco:referenceLanguage | The ISO 639-1 code of the language (2-char language code) in which information about the qualification is published. This language will be used as the default reference language for the qualification. |
| **Title**  **(required)** | skos:prefLabel | The exact and official title of the qualification, in a given language.  This property can be repeated for parallel language versions of the title. There can be no more than one title per language. It is mandatory to mention the title at least in the reference language if specified. See Multilingual Aspects for more information. |
| **Alternative label** | skos:altLabel | An alternative name of the qualification (e.g. synonym, acronym). |
| **Definition** | skos:definition | Short and abstract description about the qualification.  This property contains a free-text and can be repeated for parallel language versions of the definition. There can be no more than one definition per language. It is mandatory to mention the definition at least in the reference language if specified. See NodeLiteral and How to work with NodeLiterals? |
| **Learning outcome description (required)** | dcterms:description | The full learning outcome description of the qualification.  This property contains a free-text and can be repeated for parallel language versions of the learning outcome description. There can be no more than one learning outcome description per language. It is mandatory to mention the description at least in the reference language if specified. See NodeLiteral and How to work with NodeLiterals? |
| **Field**  **(required)** | esco:hasISCED-FCode | This property relates the qualification to the ISCED  FoET 2013 classification code (Field of Education and Training Code). It indicates the thematic area of the qualification. See Controlled vocabularies to be used. |
| **EQF level**  **(required)**  **(non-applicable for qualifications which are not part of national qualifica- tions framework)** | esco:hasAssociation | This property relates the qualification to the level as specified by the European Qualification Framework. See AssociationObject. |
| **NQF Level** | esco:hasAssociation | This property relates the qualification to the National or Regional Qualification Framework level.  See AssociationObject. |
| **Credit / Token System** | microhe:CreditSystem | Name of the Credit system in use, such as ECTS etc.  Relational to microHE:CreditSystem\_type |
| **Credit System Title** | microhe:CreditSystem\_label | The exact and official title of the credential-type/credit-system if available |
| **Credit System Definition** | microhe:CreditSystem\_definition | Short and abstract description about the credential type/credential system |
| **Credit System Value** | microhe:CreditSytem\_value | Value described in terms of hours, certificates, accomplishments or other measure used for the token |
| **Credit System Issuer** | dcterms:creator | Which organization / consortium / law regulates who can issue this token |
| **Can consist of** | microhe:hasAssociation | Which other credential type/credit system can be used to build this credential type/credit system |
| **Credit System Reference Number** | adms:identifier | Reference number |
| **Number of Credit Points** | microhe:hasCreditPoints | This property contains the credit points assigned to the qualification, following the credit system outlined above |
| **ECTS credit points** | esco:hasECTSCreditPoints | This property contains the credit points assigned to the qualification, following in the ECTS credit system. |
| **Volume of learning** | esco:volumeOfLearning | This property contains an indication of how many hours of learning efforts are needed, i.e. notional learning hours. |
| **Is partial qualification** | esco:isPartialQualification | Indicates whether a qualification is a full qualification or part of another qualification. In the latter, the qualification is only obtained as a formal outcome of a “broader” qualification of which it is part.  The default value is ‘false’. |
| **Is made up of** | microhe:consistsof | Describes the (micro) qualifications which have been linked together to create the qualification |
| **Ways to acquire** | esco:waysToAcquire | This property indicates whether the qualification can be acquired by validation of a formal, non-formal and/or informal learning processes.  The different ways are encoded as skos:Concepts in a controlled vocabulary defined by the QMS (see Controlled vocabularies to be used) |
| **Educational Credential Type** | microhe:hasAssociation linked to microhe:CreditSystem | Provide the full name of the qualification type or credit system in use, such as ECTS, degrees etc. |
| **Entry requirement** | esco:hasEntryRequirement | This property refers to an entry requirement of the qualification. |
| **Expiry period** | esco:expiryPeriod | The validity period of a qualification. |
| **Learning outcome** | esco:hasAssociation | Expresses a learning outcome of the qualification as a relation to a skill, competence or knowledge from a known framework or standard classification. The recommended framework is ESCO. See AssociationObject  Minimum 1 of each skill, competence, knowledge |
| **Related occupation** | esco:hasAssociation | Relates the qualification to an occupation or occupational field from a known framework or standard classification. The recommended framework is ESCO. See AssociationObject |
| **Recognition** | esco:hasRecognition | Information related to the formal recognition of a qualification, such as the country and/or region where the qualification was recognised and optionally the date of formal recognition. |
| **Awarding body** | microhe:AwardingBody |  |
| **Awarding activity**  **(Required to specify the awarding body/ compe- tent authority and the Country/Region)** | esco:hasAssociation | Refers to an activity related to the awarding of the qualification, such as the country or region where the qualification is awarded, the awarding body and optionally the awarding period. |
| **Awarding method** | microhe:AwardingMethod | Is the qualification certified through:   * undergoing the learning activity * an assessment of competence acquired |
| **Grade scheme** | microhe:GradeScheme | Description of  the grading scheme, and what the grade means. |
| **Mode of Study** | microhe:mode | Online / Face to Face / Practice / Workplace / informal learning |
| **Public key** | microhe:PublicKey | Public Key the institution uses to identify itself and authenticate the credentials |
| **Assessment method** | microhe:Assessmentmethod | Description of the form of assessment |
| **Accreditation** | esco:hasAccreditation | Information related to the accreditation, quality assurance and regulation of a qualification, such as the agent that was primarily responsible for the accreditation, the date the accreditation was formally approved, the review- and/or expiry date and additional information about the accreditation and used standards in the assessment and quality assurance of the qualification. |
| **Homepage** | foaf:homepage | The homepage (a public web document) of a qualification. There can be only one qualification that has a particular homepage. |
| **Landing page** | dcat:landingPage | A web page that can be navigated to in a web browser to gain access to the qualification and/or additional information. A qualification might not have a homepage but instead a landing page. |
| **Supplementary document** | esco:supplementaryDoc | A public web document containing additional documentation about the qualification, such as a diploma or certificate supplement. It can be any document containing further information about the qualification. The document can be a web page that can be navigated or a downloadable file. See Document and How to work with Documents? |
| **Release/publication date** | dcterms:issued | Date of formal publication. The date the qualification was published and the metadata about the qualification was made available |
| **Update/modification date** | dcterms:modified | Date when the qualification was last updated since it was published. |
| **Change note** | skos:changeNote | A property to record information about fine grained changes of the qualification.  This property contains a free-text and can be repeated for parallel language versions of the change note.  See NodeLiteral and How to work with NodeLiterals? |
| **History note** | skos:historyNote | A property to record information about major lifecycle changes of the qualification (e.g. past state/use/meaning of a qualification).  This property contains a free-text and can be repeated for parallel language versions of the history note.  See NodeLiteral and How to work with NodeLiterals? |
| **Additional note** | esco:additionalNote | A property to record any further information about a qualification.  This property contains a free-text and can be repeated for parallel language versions of the additional note.  See NodeLiteral and How to work with NodeLiterals? |
| **Status (required if not valid)** | iso-thes:status | The publication status of a qualification, e.g. released, obsolete, ... It MUST take one of the predefined values as specified in the section Controlled vocabularies to be used. |
| **Replaces** | dcterms:replaces | A related qualification that was replaced, displaced or superseded by this qualification.  The learning outcomes of a qualification might change overtime and therefore result in another qualification replacing the old one. |
| **Replaced by** | dcterms:isReplacedBy | In case a qualification is deprecated, this property refers to the qualification that replaces, displaces or supersedes the first qualification. |
| **Owner** | dcterms:rightsHolder | Refers to the owner of the qualification. The organization owning rights over the qualification. For example, an awarding body, a national or regional authority or an international organization. |
| **Provenance Agent** | dcterms:creator | Organisation primarily responsible for establishing defining and managing the qualification and its curricula.  Sub-creator can be a natural person |
| **Publisher** | dcterms:publisher | Refers to the agent responsible for making the information about the qualification available. |
| **Holder's Name** | microhe:Holder | Name of the person receiving the credential |
| **Date of birth** |  | Date of birth of the person receiving the credential in day/month/year in format |
| **Student ID** | microhe:PublicKey | Student identification number or code or public key used to authenticate student |
| **Grade** | microhe:Grade | Grade achieved |
| **Credits awarded** | microhe:hasCreditPoints | Number of credits awarded |
| **Sub-Credentials contained** | microhe:consistsOf | Other credentials which may make up this credential, by Unique Identifer |
| **Unique Identifier** | adms:identifier | Automatically generated for each credential |
| **Supplementary evidence** | esco:supplementaryDoc | A public web document containing additional documentation about the credential awarded to the user, such as a diploma or certificate supplement, or a doctoral dissertation |
| **Credential** | aicrohe:hasAssociation | The credential which is being awarded to the student |
| **Expiry Period** | esco:expiryPeriod | Date on which the credential will expire |