Non-formal learning and micro credentials













Microcredentials – a new opportunity for lifelong learning?

Findings from Cedefop project on Microcredentials for VET and labour market learning

Anastasia Pouliou Expert in qualifications and credentials - Future of VET 21 April 2023, Malmö, Skills Meetup Sweden 2023







Microcredentials for VET and labour market learning

Three key objectives Mapping microcredentials in European LMrelated education, training and learning Microcredentials and evolving qualifications systems

Microcredentials and the added value for end-users

Cedefop's Advisory Group on Microcredentials



Which are the distinguishing features of microcredentials?

- MCs an **umbrella term** uncertainty linked to the **naming** and **function**
- MCs most often indicate the title, the date of issue, the identity of the holder, the provider and achieved LOs.
- More diverse learners, e.g. employees, new hires, individual learners, customers of a company
- Non-formal MCs address the limitation of formal QSs to timely respond to labour market needs

Microcredentials and evolving qualifications systems

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Two main conceptual elements

- > We adopted a **wider** 'dual' perspective regarding qualifications
 - 'qualified' in the sense of having obtained a formal qualification
 - 'qualified' by virtue of having showed the ability to carry out a job effectively
- Traditional vs modern qualifications: microcredentials have a number of overlapping functions with modern ones:
 - promote lifelong learning
 - enable alternative learning pathways
 - provide different options for progression
 - ➢ facilitate the partial recognition and validation of prior learning
 - are defined by stakeholders







MCs and qualification systems/frameworks

- MCs do not necessarily present a new form of recognition but a way to **define better and standardise** the already existing offers.
- Incorporation of MCs into national qualification systems varies substantially between European countries
- Two main developments paving the way for the inclusion of MCs in NQFs are:
 - modularisation of qualifications (WA1)
 - opening up of NQFs to qualifications awarded outside formal education and training.
- Lack of adequate quality assurance practices comes as one of the main hindering factors to the utilisation of microcredentials in RPL.

Microcredentials discussion at national policy level



Indicative examples of countries



Focusing on sectoral and professional skills certificates

Can we consider them as **microcredentials**?

Adding an extra level of **complexity**...

Resemblance to microcredentials prominent when awarded and/or training programme

Sectoral and professional skills certificates can be either awarded upon completion of an organised learning activity followed by a form of assessment, or following solely on the completion of a performance-based assessment

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Not all microcredentials enjoy the same level of **trust** and **quality assurance** practices as sectoral and professional skills certificates, so possible to conceptualise them as a type of microcredentials that enjoys **higher visibility, recognition** and **trust**.



Main characteristics of microcredentials in the manufacturing and retail sectors

	Sector	Title of microcredential	Location	Workload	Link to ECTS or ECVET specified	deliv	Highly targeted/specialised types of training that are designed around			
	Manufacturing	Safety procedures in medical processe	s France	12 modules 17 days	NO	Ir ne			Interfoccional	
	Manufacturing	Quality management system and weldi coordination	ng Denmark	22.5 hours, 3 days	No	n pe			emerging topics	
	Manufacturing	International Welding Engineer (IWE)	International (41 countries)	448 hours	ECVET	person/t nl	ar	nd techno	ologies	
	Manufacturing	International Welding Practitioner (IWP	International (41 countries)	150 hours	ECVET	In person/blende	ed YES	YES		
23 out of the 39 mapped microcredentials explicitly describe their learning outcomes. The remaining either do not mention their LOs or present them in the form			Germany, France, Italy, Spain, UK, Portugal and Turkey.	60-70 hours	NO	Online/ble	Mode of	delivery	differs; it can be in-	
			Austria	1 month (fulltime)	NO	In pers	person	training,	online or blended.	
			Malta	125 hours	ECVET	In person	YES	YES		
of content description		ption dustrial	Czechia	NS	NO	In person	NO	NS		



Emerging questions!

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 Can certificates awarded following solely the completion of a performance-based assessment be considered microcredentials?
 Should microcredentials be regulated, standardised, or

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Should microcredentials be regulated, standardised, or formalised to mimic the nature of existing sectoral and professional skills certificates?

Is there a need to 're-brand' a well-functioning procedure that leads to a certificate that is well-accepted by the labour market?

Opening up qualifications frameworks to microcredentials

- CZ: The NSK functions as a framework for qualifications obtained outside formal education and training, responding directly to the needs of the labour market. Vocational qualifications could be considered a type of MCs, as they fit the European Commission's definition of MCs.
- MT: Some MQF awards could be considered as a type of MCs. One of the aims of the 2023 update of the referencing report, is to adequately deal with MCs in order to be well integrated and regulated in the education system.
- NL: The Dutch Government sees classification of MCs into the NQF and their referencing to the EQF as crucial for transparency.
- PL: Some market qualifications are considered as microcredentials; increasing number is included in the integrated qualifications system (IQS);
- ✓ SI: supplementary qualifications are comparable to microcredentials



Linking modularisation to microcredentials

Modularisation common in **adult** *learning;* modules are often considered similar to microcredentials. Indicative examples: BE-FL, BE-FR, CZ, DK, HU,

In HR, the term '**microqualification**' ('*mikrokvalifikacija'*) was introduced in the 2021. Compiled units of learning outcomes (**micro-qualifications**) lead to short training programmes and/or qualifications at EQF/NQF levels 2-4.

In IE, the modular nature of the QS accommodates freestanding qualifications and qualifications as small as five credits; credentials smaller than this can be used as stepping stones into qualifications on the NFQ by being aggregated and used in recognition of prior learning.

In ES, the new system of formal vocational training spans from micro-training to degrees and specialisation courses, based on learning progression. Microtraining modules are partial and cumulative, and lead to a partial accreditation of competence.



Microcredentials and recognition of prior learning

- ✓ Microcredentials as **outcomes** of the RPL process
- ✓ Microcredentials, as a **tool of RPL**, can be used to:



- ✓ obtain a partial qualification (e.g., as in CY, DE, IE, NL and ES);
- obtain a full formal qualification (this also relates to accumulation/stackability of MCs) (e.g., as in EE, IE, LUX and NO);
- ✓ gain access to an education programme, including making the transition from VET to higher education (e.g., as in BE-FR and IE);
- ✓ gain exemption from part(s) of an education programme and/or shorten its duration (e.g., as in Belgium-FL, DK and ES);
- gain exemption from part(s) of a professional qualification (e.g. as in BE-FL and FR);



Added value of microcredentials for end users

Research questions (added value)

1. For end-users to trust microcredentials, which conditions must be met to ensure portability and transferability

- information to be contained;
- trust to be generated?
- 2. For individual learners to make use of micro-credentials, what support can be envisaged?

3. How could micro-credentials play a more targeted role in supporting 'age-neutral' systems for VET, strengthening the focus of upskilling and re-skilling?



Surveys



Would you **consider** or **have you already made use** of microcredentials for training purposes?



Source: Survey of stakeholders representing employees, students and adult learners and individuals who are currently unemployed (N=1180).



Have you experienced in practice that microcredentials helped you get promoted?



Source: Survey of stakeholders representing employees, students and adult learners and individuals who are currently unemployed



A complex MC landscape: establishing trust - generating added value



Trust in microcredentials is contextual

Quality Assurance

LM outcomes -

- Nature of assessment
- Reputation and credibility of the issuing provider
- Information and guidance about labour market
- Proliferation of microcredentials under a range of different names
- Range of providers/diverse provision



Indicative examples of why/how MCs are trusted in **different local contexts**

Country	Example			
Estonia	High trust amongst learners reflected in the competition for admission to the microcredentials offered by Estonian universities. A quality assurance system is planned to raise trust in MCs.			
Latvia	Up-skilling courses and VET modules addressing a particular competence (both leading to certificates) are widely used and well-trusted. This is due to a well-functioning national QA.			
Poland	Microcredentials are widely trusted by employers and learners . Still, not trusted by the state education and training providers: due to lack of understanding, governing regulations, and clear quality assurance standards.			
Slovenia	Microcredentials accredited and included in the NQF are the ones most- trusted. For the rest, the trust depends on the perceived quality of content and training provider .			



Ways to support **engagement** with microcredentials





Emerging questions

- Could microcredentials become a selection mechanism that increases *inequities*? Is there a risk of qualifications unbundling?
- Does the provision still remain fragmented and disconnected?
- Are there sufficient user-centred services that could help learners and employers make informed decisions about learning options?









European Centre for the Development of Vocational Training

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Microcredentials a labour market megatrend

22 and 23 June 2023 Virtual event

#microcredentials



Thank you

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Project page <u>https://www.cedefop.europa.eu/en/projects/microcredentials-labour-</u> <u>market-education-and-training</u> Podcast: <u>https://www.cedefop.europa.eu/en/podcasts/episode-6-microcredentials-are-</u> they-here-stay

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European Centre for the Development of Vocational Training

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Microcredentials and non-formal learning in a Nordic perspective

21.4.2023

Expert network for Validation, NVL MC-working group



Focus points of this presentation and opening question

"Microcredentials are evolving as a labour market megatrend" Or, you may ask:

"Are microcredentials the adequate response to labour market megatrends"?



Frame and focus points for the MC working group

- Mapping of smaller learning units, which can be accomodated within a broad perception of microcredentials (EU definition)
- Our work is well-informed and inspired by Cedefops research about MC and the ECR – A European approach to Microcredentials.
- NVL working group, focus points:
- Mapping of Mc in existing formats in the Nordic countries and self-governing areas
- Context and format
- Legitimicy and recognition
- Validation



An answer to this question should include the relationship of elements – also implying non-formal learning:



<u>First element</u> :	Context and format – formal / non-formal / in combination?
Formal education	 Clearly defined, curriculum based learning / structured in modules or subjects Learning at distance to application of the content / not one- to-one outcome
Labour market	 Work task oriented learning / structured in relation to work task Same context for learning and application of new skills / one-to-one outcome
3rd Sector	 Diverse learning content / "Things take place across topics and activities in an environment with focus on resources, room for differences and community" Not structured in terms of certain standards, but aiming at searching, deliberate and develop the talents of each individual participant.
Nordisk Netværk for Voksnes Læring	

<u>Second Element</u>: Legitimacy and recognition Within the sector – and – across sectors??



Something needs to be done with the learning outcome to ensure legitimacy and recognition across sectors

Or, you could ask: who provides **legitimacy** and **recognition** according to context and format for the microcredential in question?

Third element: Validation

(and back to the question):

Are microcredentials the proper response to labour market megatrends, like: Green transition - Changing demography - Global competition - Growing inequality, etc.

- > There is an increasing focus on the importance of non-formal learning / transversal skills
- Transversal skills are highly recognised as essential competences in a rapid transition to new competence requirements (EU Skills Agenda 2020 and 2030),
- Formal education systems are criticized for a too long response time regarding development of new educations
- There is a corresponding skills supply requirement of being able to assess prior learning in relation to contextual, work-related settings
- Validation of prior learning is predominantly, across the Nordic countries carried out by the formal education institutions – against standards, objectives and criteria for the corresponding education. So what about prior achieved in other contexts?



Validation and microcredentials Challenges in Validation (systems)

In the NVL MC working group, we are specifically concerned about this question:

In which ways is VPL an element of microcredentials?

- *either* as assessment and recognition towards learning outcome for a formal qualification, with the application of legal framework and practice and hereby providing the option of stacking mc to a formal degree,
- or as validation of prior learning with the possibility of achieving a Microcredential, thus implying a recognition in the business- and working life context and hereby ensures the owner of a certain mc to make use of this in relevant professionals areas.

Considerations and some critical questions?

Is the principle of stackability an essential principle for the design of microcredentials? Are pitfalls embedded in the principle?

In order to highlight the importance of non-formal learning in the requirements for skills supply – how do validation systems provide an adequate framework? Validation systems are linked to providers of formal education.

Are existing microcredentials – mainly supply-driven? *or* demand-driven? Where is the highest motivation for users? For end-users?




OECD, 17.3.2023 State of the art of MC for lifelong learning and employability

OECDpublishing



 "Policy makers, educators and trainers across the world envision microcredentials to be an innovation with a multitude of potential uses and benefits – a sort of all purpose solution for problems confronting education, training and labour market systems."



OECD – MC for lifelong Learning and employability



"However, evidence on the value and impact of micro-credentials remains scarce, limiting commitment on the part of stakeholders".

Microcredentials is not a Columbus egg – but:

a new perspective on upskilling and learning, to be developed, designed and implemented within a multitude of variations in order to provide the adequate response in a fast changing world, societies and labour markets.

Thank you

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Non-formal learning and micro credentials









Kompetenspasset The Skills passport – A pilot for micro credentials ARBETSFÖRMEDLINGEN lesearc Myndigheten för vrkeshögskolan C EMPLOYMENT

Kompetenspasset – an explorative project

- Quality Assured model for micro-credentials in Sweden in tune with the EU recommendation.
- Financed by Vinnova, Sweden's innovation agency
 - \checkmark Common definition
 - ✓ Standardised description, documentation and issuance
 - ✓ Principles for portability, stackability
 - ✓ Formalisation of non-formal learning/modules of formal learning
 - Quality Assurance

Project and pilots

Project: Kompetenspasset



Five pilots

- Project managers
- Added value
- What are the needs?
- When is it useful to develop microcredentials?

Exploring relations



Micro-credentials and Arbetsförmedlingen (PES)



Challenges for PES and the potential of microcredentials





Unemployed individuals

More precise matching



Reflections from our experience

- The approval from the
 Next
 business/ the sectors seems to
 be crucial.
- Next step:
 - Our plan is to have micro-credential within the service sector in september

• Could PES produce, issue and "own" micro-credentials? No desicions has been made so far



- small scale piloting with real people, needs and data



- small scale piloting with real people, needs and data

System System Sequence →Ū |<u>ଲ</u> \rightarrow \bigcirc \equiv - $> \bigcirc$ ⇒ @ 1. Fixed technical schema 4. Issuer verifies holder With help of did (de-centralized identifiers) · Filled in as basis for micro credential According to ISO-standard One initially (probably more in future) 2. Issuer publishes a credential ID 5. Credential created, issued - and revoked · Created through filling in data model · Including ID, start date, end date, · Encrypted, but decryption possible by issuer schema ID, and various labels/tags that are part of the credential and holder · Possible to revoke by both parts Ellin 3. Holder enrolls 6. Verifier verifies credential · Through searching for the credential ID, selecting it and finally enrolling · yes-no has credential Stored in wallet view entire (set of) credential(s) view selection of credential(s)

A defined system to:

- Create
- Issue
- Own
- and Share

Micro-credentials

+ data model for Micro-credentials



- small scale piloting with real people, needs and data



Adhering to standards for:

- Verifiable credentials
- Trust
- Security
- Integrity
- ELM v3



- small scale piloting with real people, needs and data

Holder Flow



End result:

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- Verified, issued and secured micro-credentials
- Owned by pilot participant
- Verifiable credential in EU-standard format
- Available and shareable through Europass

www.kompetenspasset.se/en/



Non-formal learning and micro credentials







