



WP2/D2.7: Micro-Credentials in EuroTeQ



Tuesday, 15 February
2022

Definition of a micro-credential

General definition by the European Commission:

A micro-credential is a **qualification** evidencing **learning outcomes** acquired through a **short, transparently-assessed course** or module. Micro-credentials may be completed on-site, online or in a blended format.

Specific definition in EuroTeQ:

a EuroTeQ micro-credential should

- address a certain technological subject as a **distinct, targeted learning experience** with clear learning outcome.
- It should be a **meaningful combination** of two or more courses/elements

And also:

- be taught in **English**
- be offered in **online, hybrid** or **blended mode**
- amount to 2-10 ECTS is recommended
- elements of **intercultural** and **interdisciplinary** learning or **entrepreneurial skills** are recommended

‘Meaningful combination’

Micro-credentials should be designed as distinct, targeted learning experiences. We see them as the smallest, yet still effective and self-consistent elements of learning, leading to a targeted learning outcome.

Concept

A meaningful combination of learning elements should be based on a concept.

- The teacher may cooperate with another teacher and both develop a different, but equal part of a comprehensive learning unit, both together qualify as micro-credential.
- The teacher may develop a significant part of the micro-credential and includes smaller learning parts that are provided by somebody else already defined.

Who decides: It is up to the teachers to indicate why the combination they submit for the Teaching Fund/course catalogue is a ‘meaningful combination’. The Teaching Fund jury and task group 2.7 will give preliminary advice. Ultimate decision power is with Management Board of EuroTeQ.

Size: The micro-credential should amount to a size of 2-6 ECTS. The contribution of the partners does not necessarily have to be equal (in terms of ECTS).

Examples of meaningful combinations

Content of the meaningful combination

- Two technical fields may be well combined and offer interdisciplinary learning
- A technical field may be well combined with an entrepreneurial offer
- A technical field may be well combined with an intercultural learning offer
 - Either through a physical meeting with students of different origins
 - Or through a combined intercultural learning unit or course
- A course with a topic of interest to EuroTeQ is linked to a challenge or project-based learning experience
- Etc.

Examples of meaningful combinations	
Example 1	Biothermodynamics: combines knowledge from physics, chemistry, biology and engineering
Example 2	Technology & Social Sciences → Techonlogy in Society (challenges arising in high-tech societies through technological progress and innovation with regards to culture, law, mobility, life science/health care (just to name a view)
Example 3	Satellites/Satellite Image Analysis + Computer Vision + Data Science + Machine Learning + AI + [xyz], e.g. agriculture / climate research / transportation science
Example 4	101 in specific (also interdisciplinary) technical fields + prototyping workshop on-site (Maker Spaces / Innovation Labs etc.)

Checklist for interested teachers: is my course offer suitable as a micro-credential?

- | | Check? |
|---|-----------------------|
| • Is your offer providing a distinct, targeted learning experience with clear learning outcomes? | <input type="radio"/> |
| • Does it consist of 2 or more course elements that jointly form a 'meaningful combination', with independent value to the student? And can you explain this? | <input type="radio"/> |
| • Is it in English? | <input type="radio"/> |
| • Is it offered in a format that is supported by the current EuroTeQ course catalogue? (virtual, hybrid, blended) | <input type="radio"/> |
| • Does it have a combined range of 2-10 ECTS? (recommended, but no obligation) | <input type="radio"/> |
| • Does it entail elements of intercultural and interdisciplinary learning or entrepreneurial skills (recommended, but no obligation) | <input type="radio"/> |

Looking good?
Then please get in touch with your
EuroTeQ contact person to submit
your course offer and/or apply for
the Teaching Fund!