ECTS – Challenges of writing learning outcomes

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Programme Competences and Learning Outcomes

Competences

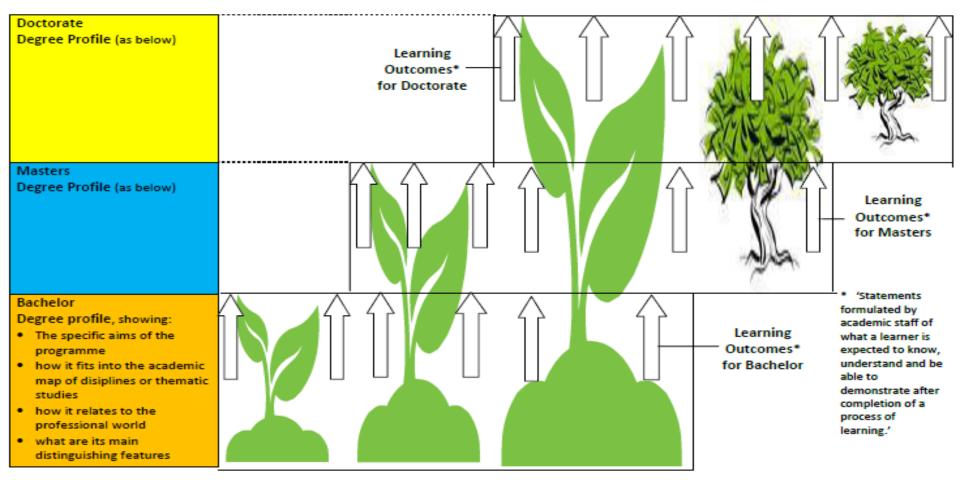
- Similar to the requirements of short job description;
- Property of the student (describes what student can do);
- Contains information of the context in which competence is applied

Learning outcomes

- A longer statement describing a measurable outcome of a competence
- Indicates to which level the competence has been developed within the programme.

Relationship between competences and LO (by Jeremy Cox, Polifonia)

Competences: 'a dynamic combination of knowledge, understanding, skills and abilities [...] formed in different course units and assessed at different stages'



Relation between Competences and LO in study cycles (subject area of social work) (Lithuanian case)

Generic competence	Ability to plan and organize					
	Professional bachelor	Bachelor	Master			
LO	Estimates time needed to reach goals and meets deadlines. Differentiates between primary ands secondary aims of the activity. Plans stages of the activity according to the available guidelines	Distributes roles to the team members in order to reach goals. Adjusts activities according to the analysis of the results and recommendations of the experts. Plans activity after having critically evaluated controversial information from different sources	Plans complex activity composed of interrelated tasks. Depending on the changing situations adjusts plans in the process of activity implementation. Plans stages of activity evaluating risks of unknown situations			
Subject specific competence	To influence social policy through analysis and evaluation of social processes based on research and practice in social work and other subject areas					
	Professional bachelor	Bachelor	Master			
LO	Discuss questions related to social help processes and proposes ideas/solutions for the increase of their effectiveness	Evaluate processes of social help and propose solutions based on theory and interdisciplinary practice that would lead to the increase of effectiveness. Critically evaluate various social care systems and offer solutions to enhance Lithuanian social care system.	Explain movements and initiatives aimed at decreasing social exclusions and ensuring social justice. Critically evaluate various social care systems through the analysis of the effectiveness of available services.			

Generic competences and LO in social work of Master degree

Leadership and management

Compete

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- Analyze the work of the organization and submit proposals for the improvement
- Lead the team, manage communication and decision taking processes

LO

The above only deals with the relationship between Unit and Programme LOs at the *final* level There is also the question of how LOs are built towards throughout the levels of the programme. It is helpful to have some notion of the typical milestones towards each Programme LO by Level/Year. An example for a four-year Bachelor programme in Music:

	LEARNING OUTCOME 1: SKILLS IN ARTISTIC EXPRESSION
Year 4	At the <i>completion of their studies</i> , students should be able to create and realise their own artistic concepts and should have developed the necessary skills for their expression.
Year 3	Milestone 3: At the completion of their <i>third year of studie</i> s, students should be beginning to develop their own artistic intentions into creative conceptions spanning entire works and should have developed the necessary skills to integrate technical and imaginative aspects almost seamlessly.
Year 2	Milestone2: At the completion of their <i>second year of studies</i> , students should be able to formulate their own artistic intentions and should have developed the necessary skills to implement these, or respond imaginatively to suggestions from their teacher, with fluency and technical security.
Year 1	Milestone 1: At the completion of their <i>first year of studies,</i> students should have developed sufficient technical

All units are – in one way or another – related to each other.

Programme Learning Outcomes	Final Level Unit LOs	Final = Level = Unit LOs	Final Level = Unit LOs	Final Level Unit LOs
	1	1	1	1
	Higher Level Unit LOs	Higher Level Unit LOs	Higher Level Unit LOs	Higher Level Unit LOs
	1	1	1	1
	Lower Level Unit LOs	Lower Level Unit LOs	Lower Level Unit LOs	Lower Level Unit LOs
	1	1	1	1
	Initial Level Unit LOS	Initial Level Unit LOS	Initial Level Unit LOS	Initial Level Unit LOS

Learning outcomes and competences in study programmes (Tuning)

Course unit LO	Competences									
	A	В	С	D	E	F	G	Н		J
Unit 1		X			X					
Unit 2	X			X			X			
Unit 3		X				X			X	
Unit 4	X		X							X

Example of Programme Learning Outcomes [BSc(Ed)]

On successful completion of this programme, students should be able to:

- Recognise and apply the basic principles of classroom management and discipline.
- Identify the key characteristics of excellent teaching in science.
- Develop comprehensive portfolios of lesson plans that are relevant to the science curricula in schools.
- Evaluate the various theories of Teaching and Learning and apply these theories to assist in the creation of effective and inspiring science lessons.
- Critically evaluate the effectiveness of their teaching of science in the second-level school system.
- Display a willingness to co-operate with members of the teaching staff in their assigned school.
- Foster an interest in science and a sense of enthusiasm for science subjects in their pupils.
- Synthesise the key components of laboratory organisation and management and perform laboratory work in a safe and efficient manner.
- Communicate effectively with the school community and with society at large in the area of science education.

Keep in mind!....

Not every Programme LO need wait until the final year for completion, e.g. example for Music of Aural Skills:

These skills are essential, therefore key Programme LOs, but should be fully developed *before* students complete their studies. Commonly, they are compulsorily assessed for the last time at the end of the Second Year

To keep track of Programme LOs it can be helpful to give them numbers/letters and just list the relevant ones in each Unit Description. The Unit Description will then included fully-stated LOs of its own

LO not replacement but a supplement of describing teaching and learning

Aims and objectives

Focus on teaching – aims and objectives and use of terms like *know*, *understand*, *be familiar with*.

Aims: Give broad purpose or general intention of the module; Objectives: Information about what the teaching of the module hopes to achieve.

Learning outcomes

Outcomes: Focus on what we want the student to be able to do - use of terms like define, list, name, recall, analyse, calculate, design, etc.

Emphasis on the learner and his ability to do something

Characteristics of Learning outcomes

Learning outcomes describe what a learner is expected to know, understand and be able to do after successful completion of a process of learning.

they must be assessed therefore they need to be obtainable and measureabl e

they need to contain an appropriate active verb involve students in undertaking work and therefore have a workload associated with them

need to be written in a holistic context taking into account the Learning and Assessment

Feedback should be given in relation to Learning Outcomes

Programme vs module Learning outcomes

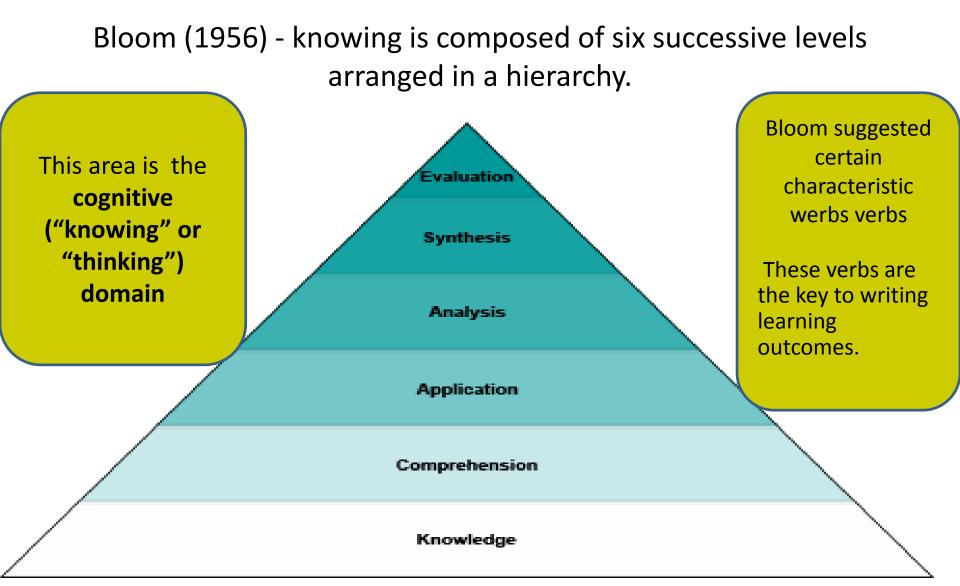


Programme

- Broad
- Achievable
- Integrated
- Generalised version of module LO



- Module
- Specific
 - Assessable
 - Performance based
 - Specific to subject area level



Bloom's Taxonomy of learning. Adapted from: Bloom, B.S. (Ed.) (1956) Taxonomy of educational objectives: The classification of educational goals. Handbook I, cognitive domain. New York ; Toronto: Longmans, Green.

KNOWLEDGE	COMPREHENSION	APPLICATION	ANALYSIS	SYNTHESIS	EVALUATION
Cite	Associate	Apply	Analyze	Arrange	Appraise
Count	Classify	Calculate	Appraise	Assemble	Assess
Define	Compare	Classify	Calculate	Collect	Choose
Draw	Compute	Demonstrate	Categorize	Compose	Compare
Identify	Contrast	Determine	Classify	Construct	Criticize
List	Differentiate	Dramatize	Compare	Create	Determine
Name	Discuss	Employ	Debate	Design	Estimate
Point	Distinguish	Examine	Diagram	Formulate	Evaluate
Quote	Estimate	Illustrate	Differentiate	Integrate	Grade
Read	Explain	Interpret	Distinguish	Manage	Judge
Recite	Express	Locate	Examine	Organize	Measure
Record	Extrapolate	Operate	Experiment	Plan	Rank
Repeat	Interpolate	Order	Identify	Prepare	Rate
Select	Locate	Practice	Inspect	Prescribe	Recommend
State	Predict	Report	Inventory	Produce	Revise
Tabulate	Report	Restructure	Question	Propose	Score
Tell	Restate	Schedule	Separate	Specify	Select
Trace	Review	Sketch	Summarize	Synthesize	Standardize
Underline	Tell	Solve	Test	Write	Test
2	Translate	Translate	Prove		Validate
		Use			
		Write			

Issues for staff – find your way!

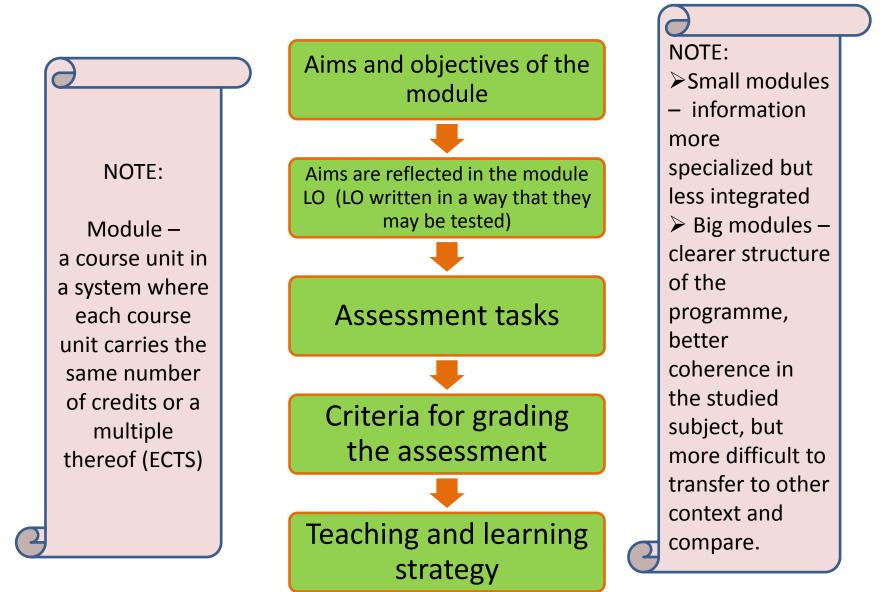
Bloom's taxonomy

- Should be seen as a toolkit
- Any other taxonomy or tool might be used

Competences

- Competences should be seen as an important element for the dialogue with the employers
- LO are more programme specific and indicate the level

Development of the module



Basic suggestions on writing LO

have to be Focus on clearly written to expectations of be understood what students by students, will be able to colleagues and demonstrate at external the end examiners Avoid Keep in mind complicated assessment, 5sentences. One 8 outcomes per module is sentence is enough enough

Start with the phrase: "On successful completion of this module, students should be able to:"

Yes

Students will understand 10 reasons for change

NO

Students will appreciate cultural diversity Students will be able to list 10 reasons for change

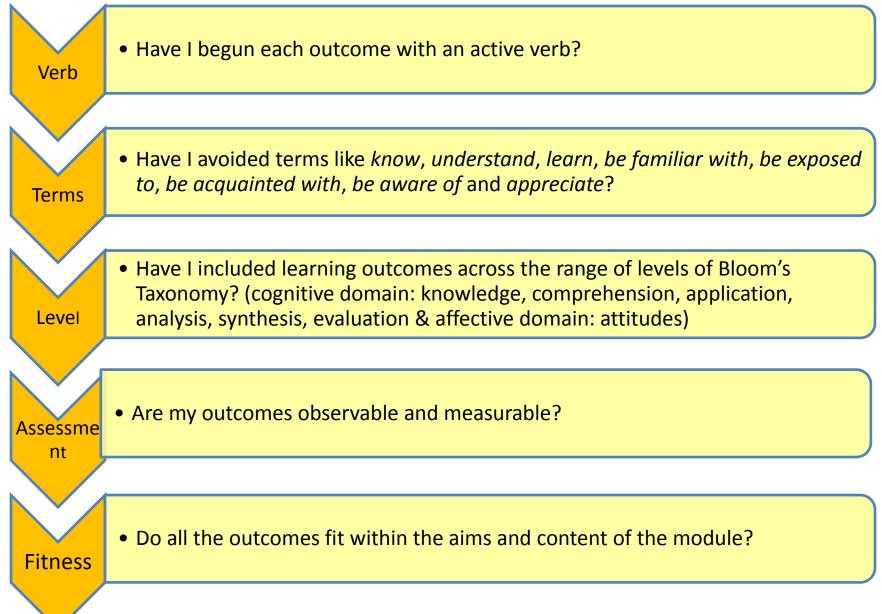
Students will summarize their feelings about cultural diversity

Points to consider: is the student' learning process observable? Progress measurable? Performable, therefore assessable?

Further suggestions:

- Be realistic: take into account prior knowledge, available time and the learning opportunities
- > Avoid LO that are too broad or too narrow
- Avoid verbs like: "know", "understand", "learn", that are vague and subject to interpretation
- May use open-ended lo to allow creativity, e.g. "apply theory critically to analyse a given situation"
- Ensure that LO are assessable

Check list for writing module LO



Student workload – issue to consider

(input: *Give me time to think,* U-ty of Oulu)

- Preliminary work before contact hours;
- Contact hours;
- Individual work after contact hours. Individual work will depend on study methods used.



Example: Aspects of Marital Law and Practice in the 17th Century (by R. de Lavigne)

A student who successfully completes this module will be expected to be able:

- 1. To demonstrate detailed knowledge of both the legal and the social framework of marriage in Western Europe in this period.
- 2. To analyse the reasons for variations in legal frameworks and of social practice in both space and time.
- 3. To explore the link between marriage, on the one hand, and natality and mortality, on the other hand, as determinants of population trends.
- 4. To display the analytical tools and skills of the socio-legal historian, with particular reference to the selected legal and social texts of the period.
- 5. To deploy statistical information using information and communication technology where appropriate.
- 6. To demonstrate an ability to work both independently and in groups in order to propose solutions to problem areas within this field.
- 7. To work in more than one European language.

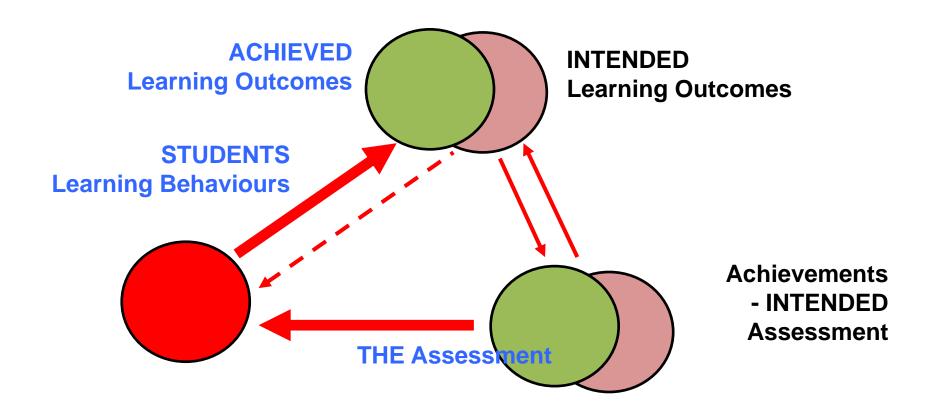
Example: Calculation of the workload

The planned third-year tutorial model comprises 10 ECTS (250-300 hours):

- Tutorial: 2 hours per week x 14 weeks (25/30 hours = <u>1 ECTS</u>)
- Studying a textbook (500 pages) and sitting exam 6 paged per hour = 83 hours = <u>3 ECTS credits</u>
- Writing a 7-10 page paper (700-1000 pages of literature must be read) = 140 hours = <u>5 ECTS credits</u>
- Reading and commenting on assignments written by group members (critical reflection) – (2 hours per week x 14 weeks = 28 hours = <u>1 ECTS credit</u>)
- 1+3+5+1 = 10 ECTS credits

Tuning Links Learning to Assessment

First, needs analysis = students required performance This informs the intended assessment. Write LOs to tell students and staff what is intended. Use LOs to write new assessments / exams

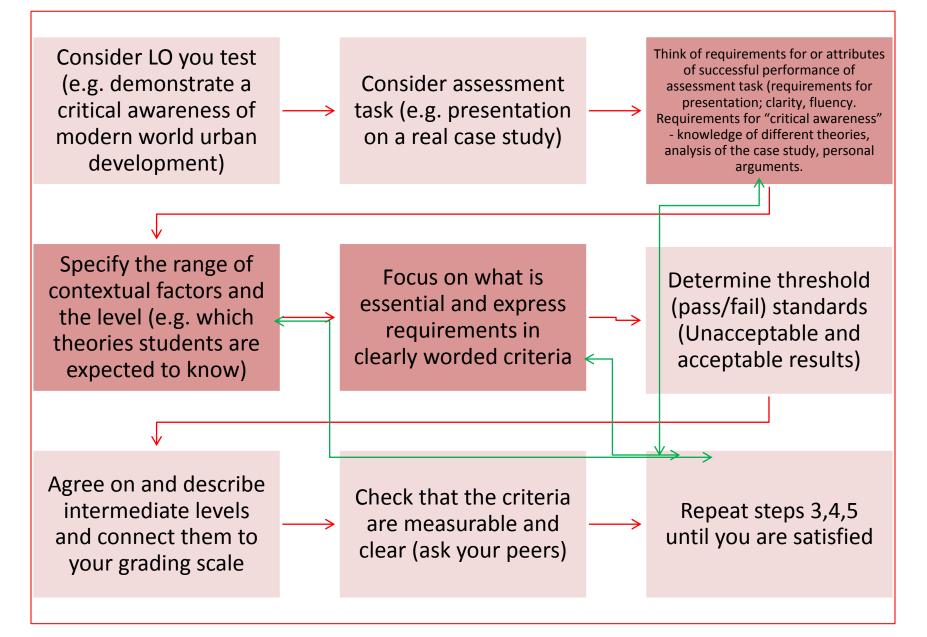


Constructive alignment

- Constructive alignment is the deliberate linking within curricula of aims, learning outcomes, learning and teaching activities and assessment.
- Learning Outcomes state what is to be achieved in fulfilment of the aims.
- Learning activities should be organised so that students will be likely to achieve those outcomes.
- Assessment must be designed such that students are able to demonstrate that they have met the learning outcomes.
- Constructive alignment is just a fancy name for "joining up the dots".

(Morss and Murray, 2005)

Steps in writing assessment criteria



Assessment on module level

Module	LO 1	LO 2	LO 3	LO 4	LO 5	LO 6
Task						
1	•••				•••	
Task 2	00		•••	•••		
Task						
3						
Exam	•••			•••	••	•••

Isn't the fist LO assessed too much? Is there no need to asses LO2? Do we need to assess LO 1, 3, 4 5 and 6 during the exam? What LO are assessed during the task 3? Is exam a real tool of assessment? Why so many LO are assessed in in the exam when other tasks/methods are also used?

