

The TALOE project – assessment of learning – 2nd part

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Introduction



- Meet a participant you don't know
- Get acquinted and find out:
 - Where he/she works
 - Why he/she enrolled for the workshop and with what expectations
- Introduce this participant to other participants



About learning outcomes



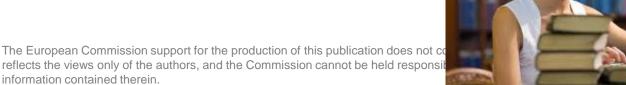
- A learning outcome (LO) is the specification of what a student should learn as the result of a period of specified and supported study
- Outcomes are usually expressed as knowledge, skills, or attitudes
- They can be defined at different levels:
- LO of the study programme
- LO of the course
- LO of the module





Why we need clearly defined Learning Outcomes?

- Students will know what to expect from the course/module
- Students will better understand what is expected from them
- Potencial students and employers will have better understanding of what will student know and be able to do after finishing a study







Learning Outcomes should be



Stated from the student's position

- Student will understand the nine reasons for conducting a need assessment
- Student will be able to explain advantages and disadvantvages of on-line communication

Observable and measurable

- Student will be able to list nine reasons for conducting a need assessment
- Student will be able to summarize three major groups of learning theories and their representatives/authors of some theories





Learning outcomes of a course/module

- Do you have experience in writing learning outcomes?
- What is your experience (problems, what helped, ...)?
- Choose a course/module within the group for which you will write LO's



Questions to be asked?

Cyclic plan of use and evaluation of LO's

How to ensure that learning outcomes, teaching and learning are consistent? - evaluation



What is important that student learn during the study – *learning* outcomes





Which assessment and grading methods to choose in order to reach valid information how much are achieved defined learning outcomes by student - grading

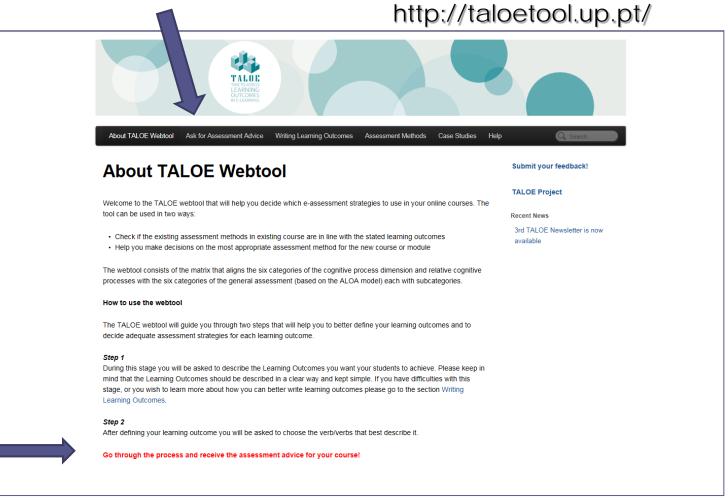


How to organize teaching and learning to be achievable by the majority of students – methods/way of learning





How to use TALOE web tool





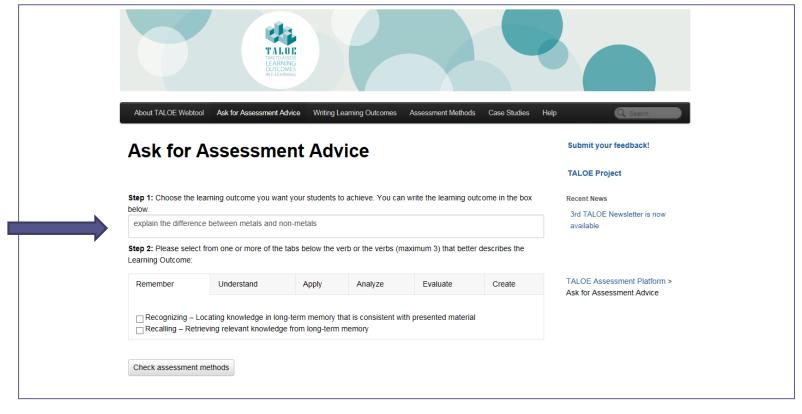


What can you do with this tool?

- Check if the existing assessment methods in courses are in line with the stated learning outcomes
- Use it as help in decision on the most appropriate assessment methods for the new course or module



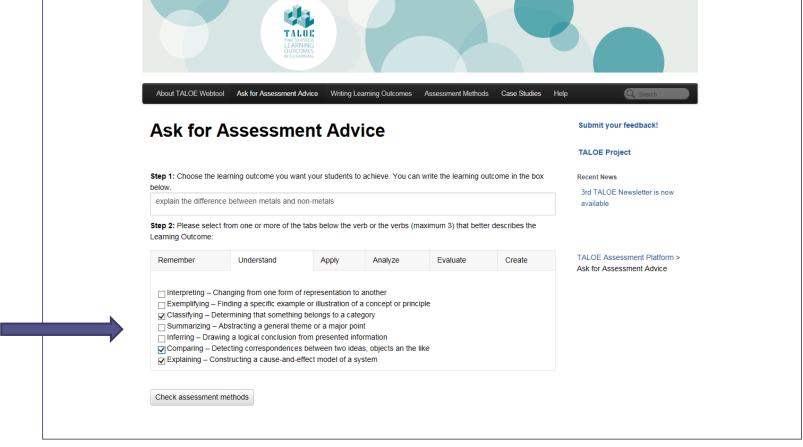
Write your learning outcome







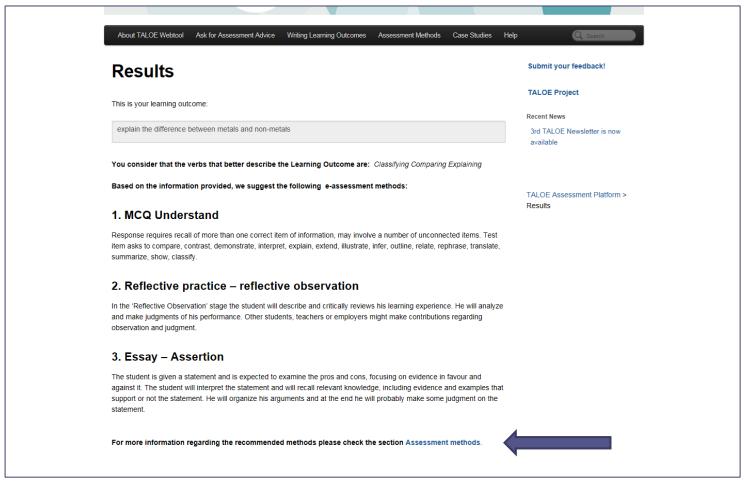
Select three verbs that describe the learning outcomes





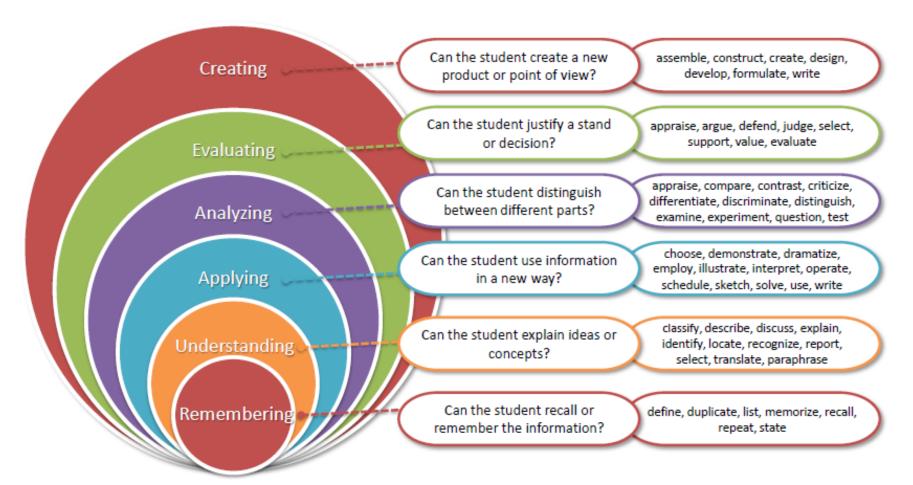


Results





Bloom's Taxonomy (Revised)







The cognitive process dimension – categories, cognitive processes

lower order thinking skills			higher order thinking skills		
remember	understand	apply	analyze	evaluate	create
recognizing identifying recalling retrieving	interpreting clarifying paraphrasing representing translating exemplifying illustrating instantiating classifying categorizing subsuming subsuming substracting generalizing inferring concluding extrapolating interpolating interpolating comparing contrasting mapping matching explaining constructing models	executing carrying out implementing using	differentiating discriminating distringuishing focusing selecting organizing finding coherence integrating outlining parsing structuring attributing deconstructing	checking coordinating detecting monitoring testing critiquing judging	generating hypothesizing planning designing producing constructing

(Table adapted from Anderson and Krathwohl, 2001, pp. 67–68.)





Task 2- Learning outcomes in e-course

 Taking into consideration Bloom taxonomy write three learning outcomes for the chosen e-course



E-assessment - definition

- e-Assessment is the end-to-end electronic assessment processes where ICT is used for the presentation of assessment activity, and the recording of responses. This includes the end-to-end assessment process from theperspective of learners, tutors, learning establishments, awarding bodies and regulators, and the general public. (JISC/QCA)
- e-assessment refers to assessment methods and practices that emphasize the role of information technology relative to measuring students' learning.



Advantages of e-assessment

- immediate feedback to students,
- allows rehearsal and revision,
- immediate feedback to staff,
- allows evaluation of a course's strengths and weaknesses,
- can be linked to other computer-based or online materials.



Constructive alignment

- a principle used for devising teaching and learning activities, and assessment tasks, that directly address the learning outcomes intended in a way not typically achieved in traditional lectures, tutorial classes and examinations (Biggs and Tang, 2011).
- Approach where planning of the course starts with clear vision of learning outcomes
- LO of the course should be aligned with content and activities in course and with assessment methods

LEARNING OUTCOMES



ASSESSMENT

What do we

How do we know that

hope students: will plearn? duction of this publication does the ytubave learned? which

reflects the views only of the authors, and the Commission cannot be held responsible for any use which may be made of the information contained therein.





Learning Outcomes	Activities	Assessment
Remember	Lectures	Types of questions in
Understand	Discussions	exams
Apply	Laboratory work	Evaluation of
Analyse	Tests	practical work
Evaluate	Problems to solve	Report on individual
Create	Field work	work
	Group work	Projects
	Presentations in	Presentations
	group	Seminars
	Homework	Essays



Examples (1)

Learning outcome	Content/way of learning	Assessment	Workload
To be able to count types of questions in exams	Lecture, text in a textbook about the types of questions in exams	To count questions in exams and group them	6 hours
To be able to analyse questions in exams	Lecture, discussions in small grouls about adv and disadv of some types of questions, work in pairs on the analysis of prepared questions	State the adv. And diadv. Of questions; MCQ, compare essay type questons acording to adv. And disadv.	8 hours
Prepare exam	Lecture, demonstration of steps in the exam preparation, individual work in preparation of questions, work in small groups to choose questions and design exam	Prepare the exam in Chemistry according to the course programme	15 hours



Task 3- Assessment methods in e-course

Write for each defined LO e-assessment methods



Checking with TALOE web tool

learning outcome	conetent/w ay of learning	assessment	workload	proposed assessment by TALOE



Present your results

- More information about the TALOE project and web tool
- http://taloe.up.pt
- taloe@up.pt



