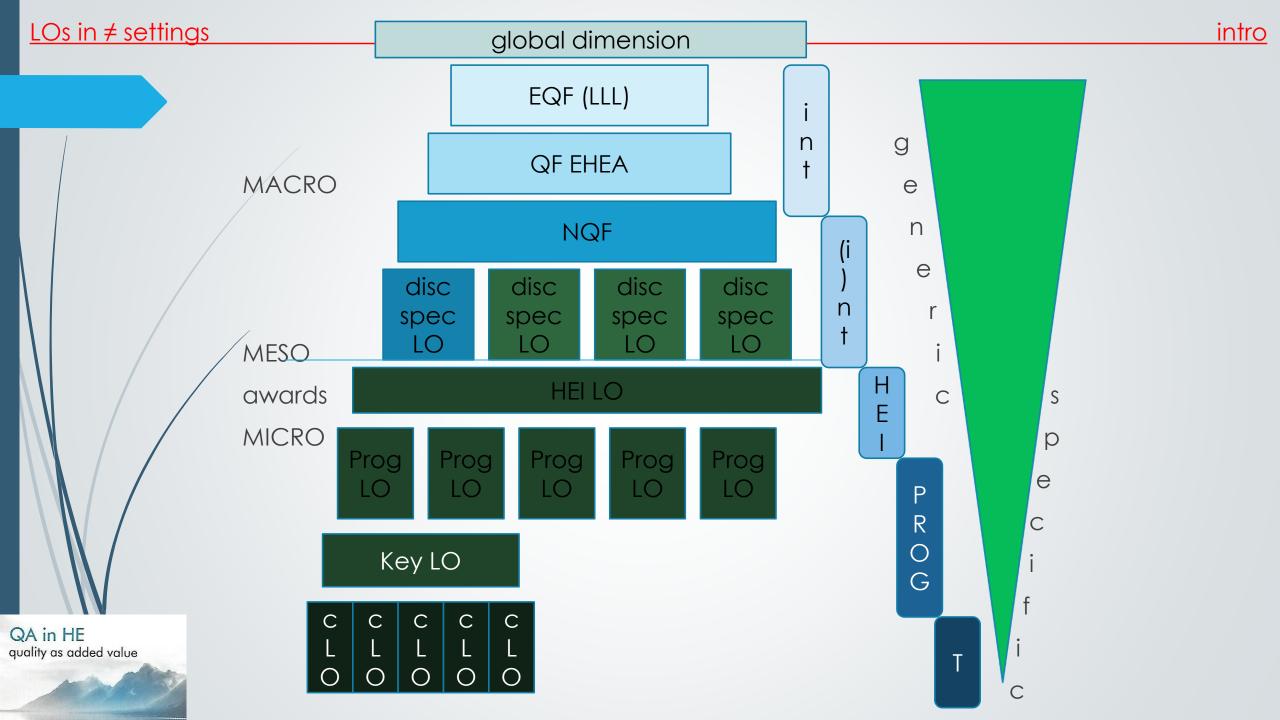


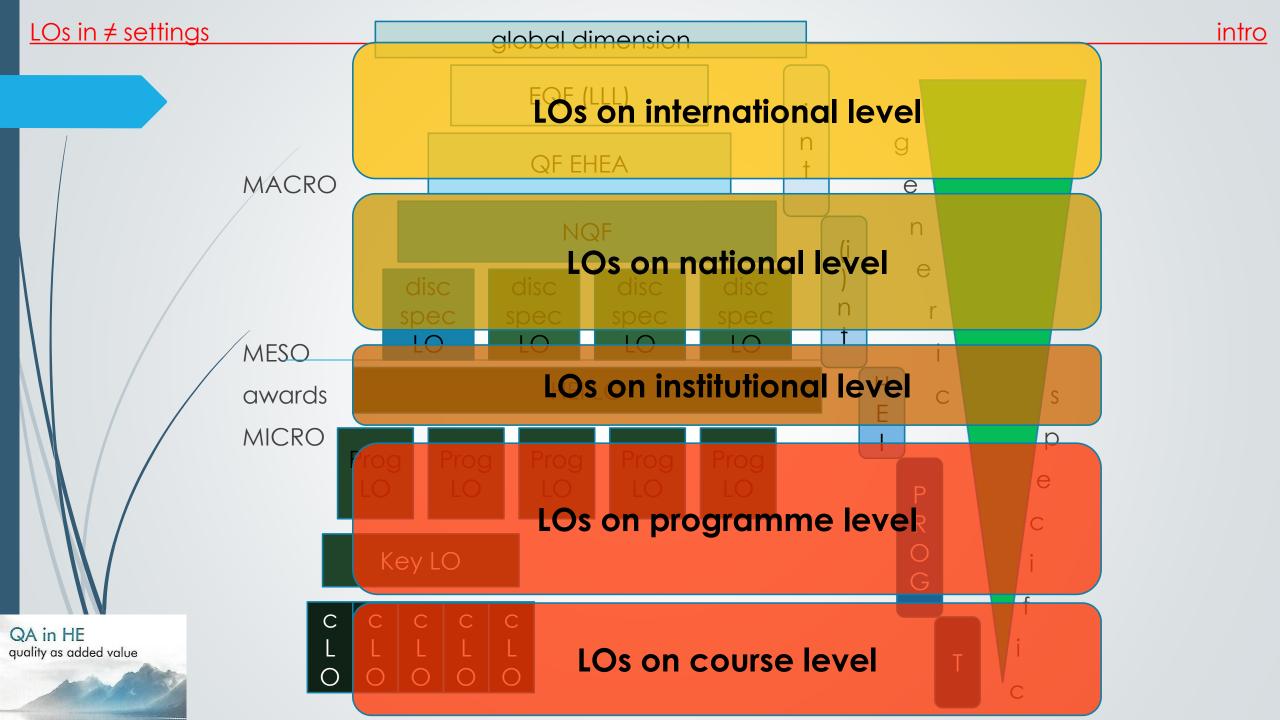
Independent international QA expert

Seminar: LO: tools & approaches for improving qualifications frameworks in (Uzbek) HE

15 November 2017

Tashkent





- Meeting point
- LOs on international level
- LOs on national level
- LOs on institutional level
- LOs on programme level
- LOs on course level
- Conclusions: recommendations (3)



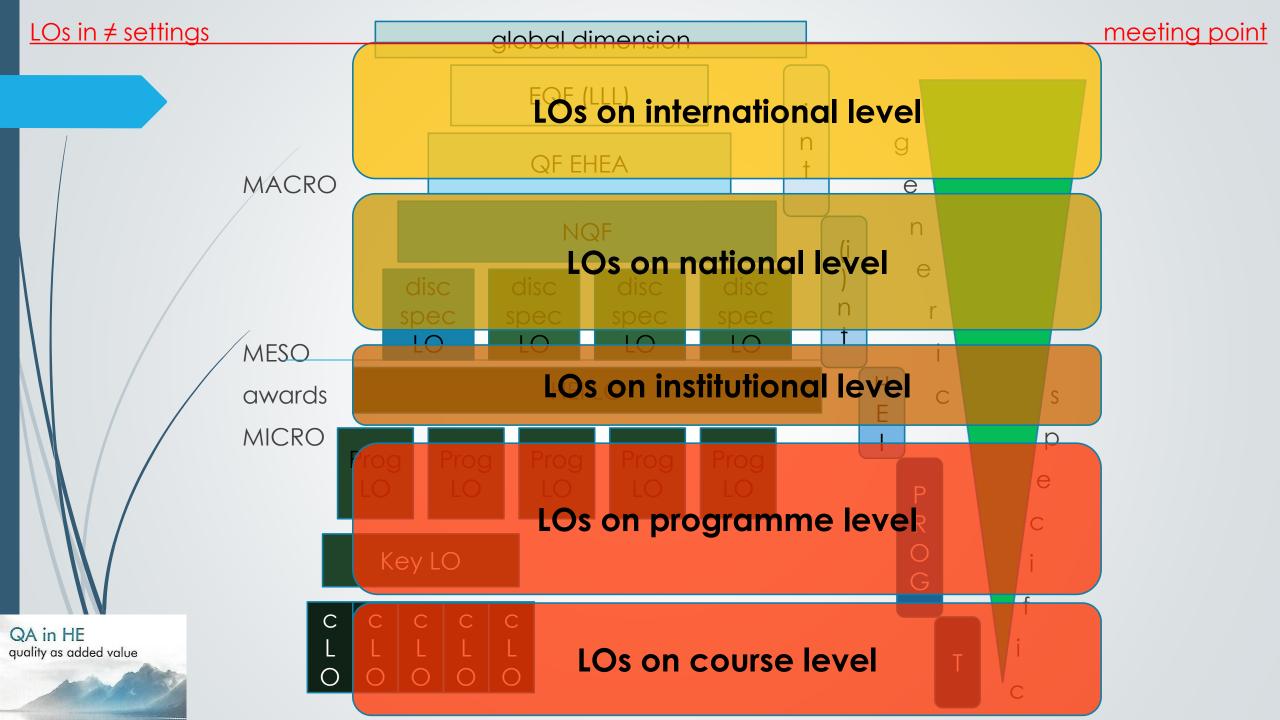


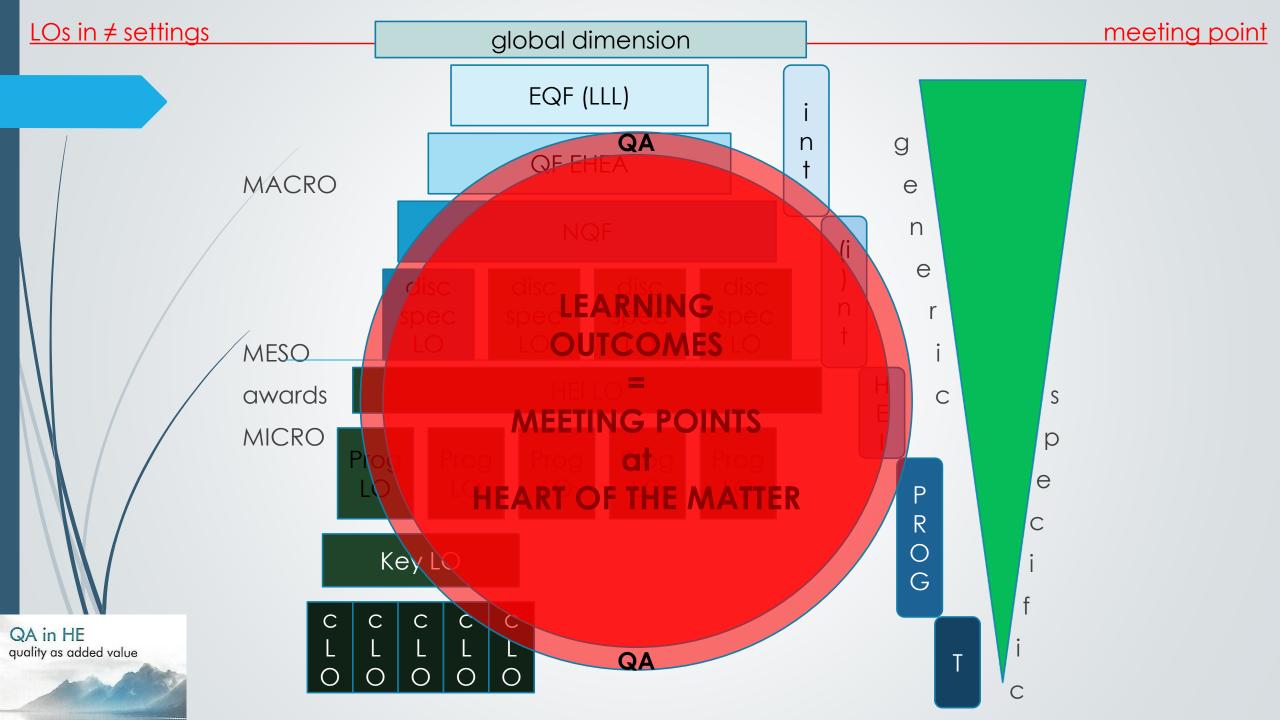
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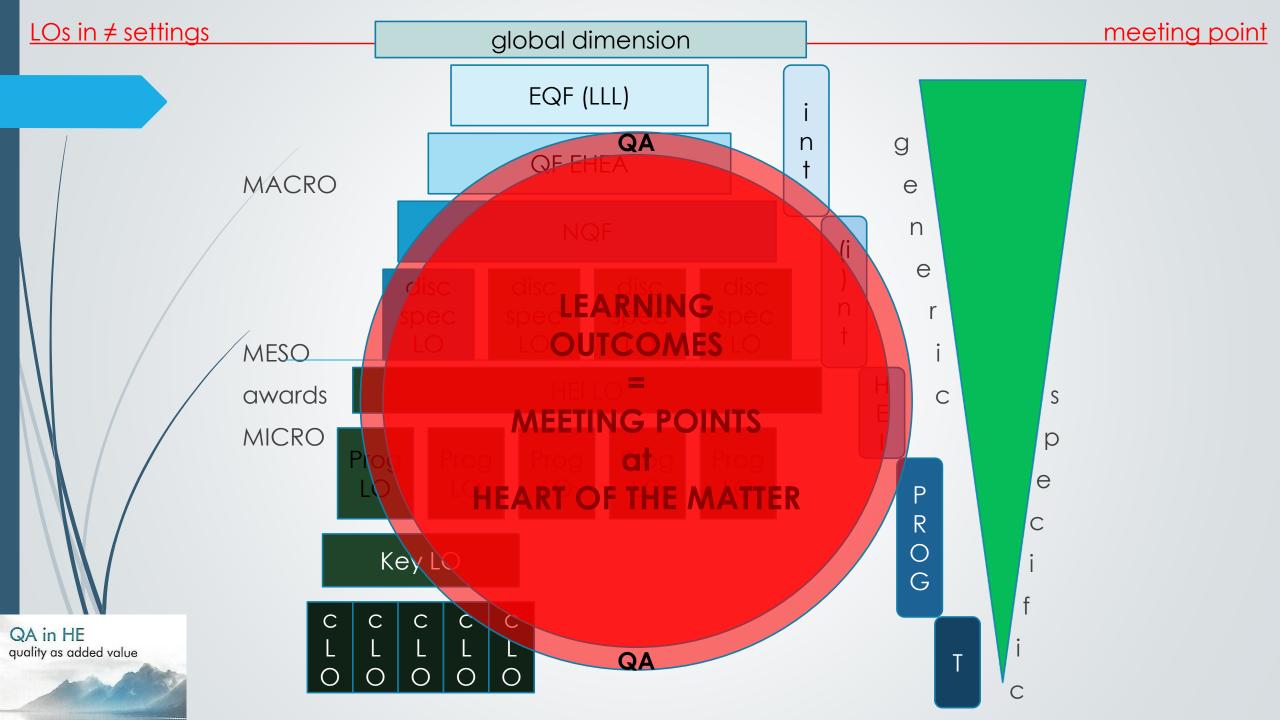
Independent international QA expert

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Tashkent







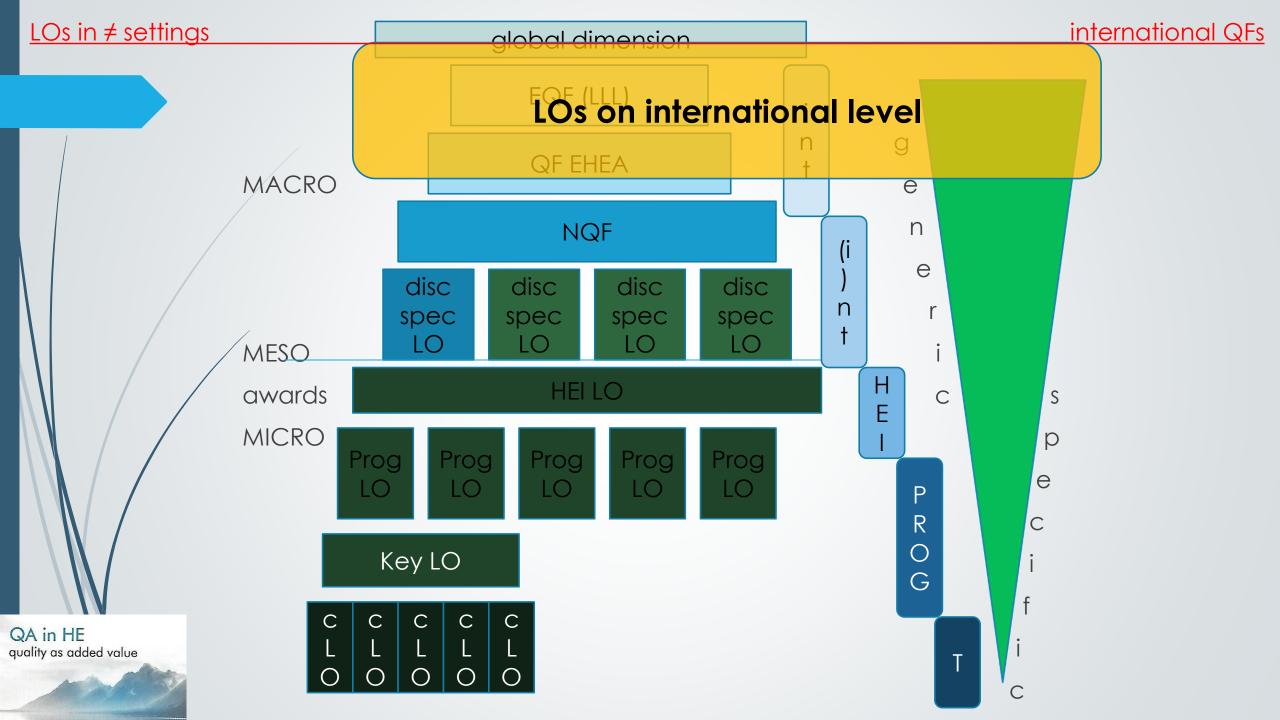
LEARNING OUTCOMES in different settings LOs on INTERNATIONAL LEVEL Lucien Bolldert

Independent international QA expert

seminar: LO: tools & approaches for improving qualifications frameworks in (Uzbek) HE

15 November 2017

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LOs in ≠ settings international QFs

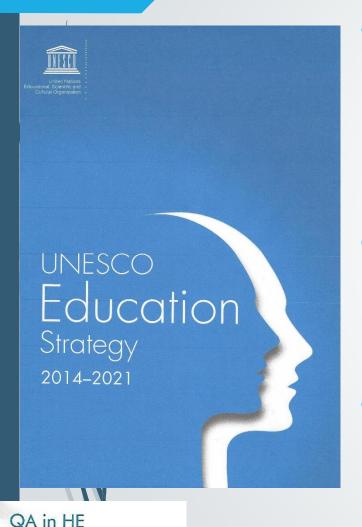
		Level	ISCED 2011	Description
1		0	Early childhood Education (01 Early childhood educational development)	Education designed to support early development in preparation for participation in school and society. Programmes designed for children below the age of 3.
		0	Early childhood Education (02 Pre-primary education)	Education designed to support early development in preparation for participation in school and society. Programmes designed for children from age 3 to the start of primary education.
		1	Primary education	Programmes typically designed to provide students with fundamental skills in reading, writing and mathematics and to establish a solid foundation for learning.
		2	Lower secondary education	First stage of secondary education building on primary education, typically with a more subject-oriented curriculum.
$\ \cdot\ $		3	Upper secondary education	Second/final stage of secondary education preparing for tertiary education and/or providing skills relevant to employment. Usually with an increased range of subject options and streams.
\mathbb{N}		4	Post-secondary non-tertiary education	Programmes providing learning experiences that build on secondary education and prepare for labour market entry and/or tertiary education. The content is broader than secondary but not as complex as tertiary education.
		5	Short-cycle tertiary education	Short first tertiary programmes that are typically practically-based, occupationally-specific and prepare for labour market entry. These programmes may also provide a pathway to other tertiary programmes.
$\ \cdot\ $		6	Bachelor or equivalent	Programmes designed to provide intermediate academic and/or professional knowledge, skills and competencies leading to a first tertiary degree or equivalent qualification.
		7	Master or equivalent	Programmes designed to provide advanced academic and/or professional knowledge, skills and competencies leading to a second tertiary degree or equivalent qualification.
QA in HE quality as add		8	Doctoral or equivalent	Programmes designed primarily to lead to an advanced research qualification, usually concluding with the submission and defense of a substantive dissertation of publishable quality based on original research.

<u></u>									
	EHEA cycle	EQF level	Level	ISCED 2011	Description				
	Level 5 non- HE	Level 4	4	Post-secondary non-tertiary education	Programmes providing learning experiences that build on secondary education and prepare for labour market entry and/or tertiary education. The content is broader than secondary but not as complex as tertiary education.				
	Level 5 HE	Level 5 HE	5	Short-cycle tertiary education	Short first tertiary programmes that are typically practically-based, occupationally-specific and prepare for labour market entry. These programmes may also provide a pathway to other tertiary programmes.				
	Level 6 HE	Level 6 HE	6	Bachelor or equivalent	Programmes designed to provide intermediate academic and/or professional knowledge, skills and competencies leading to a first tertiary degree or equivalent qualification.				
	Level 7 HE	Level 7 HE	7	Master or equivalent	Programmes designed to provide advanced academic and/or professional knowledge, skills and competencies leading to a second tertiary degree or equivalent qualification.				
A in	Level 8 HE	Level 8 HE	8	Doctoral or equivalent	Programmes designed primarily to lead to an advanced research qualification, usually concluding with the submission and defense of a substantive dissertation of publishable quality based on original research.				

- ISCED 1976: an instrument suitable for assembling, compiling and presenting statistics of education both within individual countries and internationally
- ISCED 1997: part of efforts to increase the international comparability of education statistics, adding 25 fields of education

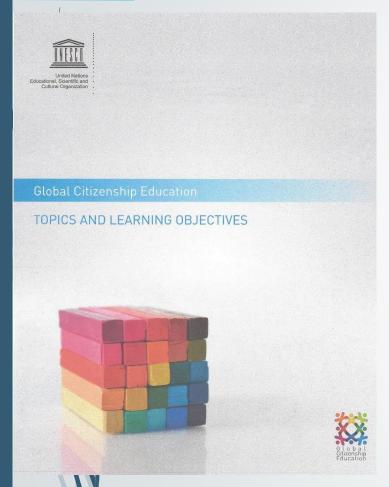
 ISCED 2011: UNESCO's 36th General Conference & UNESCO World Conferences on Education





quality as added value

- ISCED 1976: an instrument suitable for assembling, compiling and presenting statistics of education both within individual countries and internationally
- ISCED 1997: part of efforts to increase the international comparability of education statistics, adding 25 fields of education
- ISCED 2011: UNESCO's 36th General Conference & UNESCO World Conferences on (sustainable) Education (development)



Cognitive

- Learners acquire knowledge and understanding of local, national and global issues and the interconnectedness and interdependency of different countries and populations
- Learners develop skills for critical thinking and analysis

Socio-Emotional

- Learners experience a sense of belonging to a common humanity, sharing values and responsibilities, based on human rights
- Learners develop attitudes of empathy, solidarity and respect for differences and diversity

Behavioural

- Learners act effectively and responsibly at local, national and global levels for a more peaceful and sustainable world
- Learners develop motivation and willingness to take necessary actions

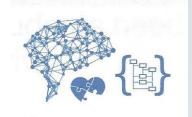


QA in HE

quality as added value



Top 10 skills



In 2015

- 1. Complex Problem Solving
- 2. Coordinating with Others
- 3. People Management
- 4. Critical Thinking
- 5. Negotiation
- 6. Quality Control
- 7. Service Orientation
- Judgment & Decision Making
- 9. Active Listening
- 10. Creativity

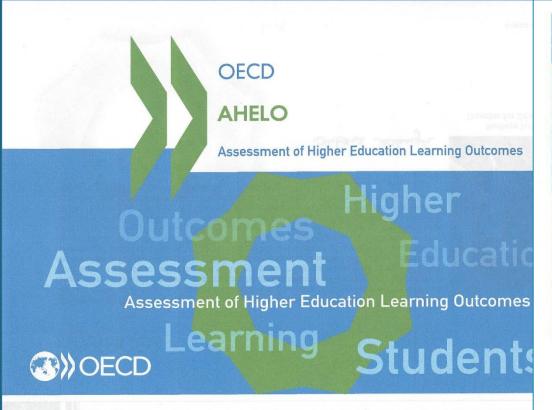
In 2020

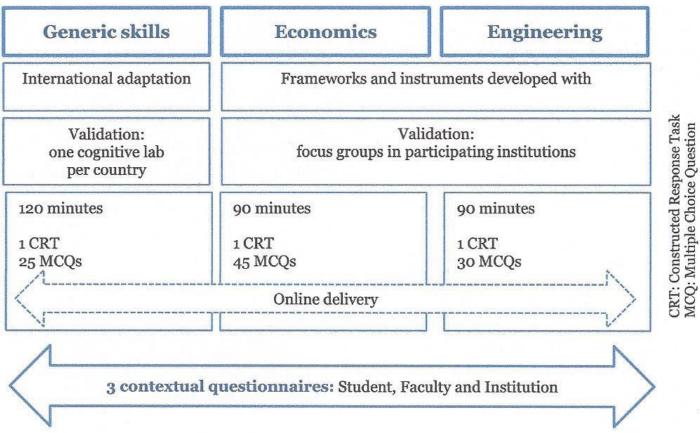
- Complex Problem Solving
- 2. Critical Thinking
- 3. Creativity
- 4. People Management
- 5. Coordinating with Others
- 6. Emotional Intelligence
- Judgment & Decision Making
- 8. Service Orientation
- 9. Negotiation
- 10. Cognitive Flexibility

Source: Future of Jobs Report (2017) LOs in ≠ settings

OECD Assessment of HE LOs (AHELO) 2010-13

feasibility study





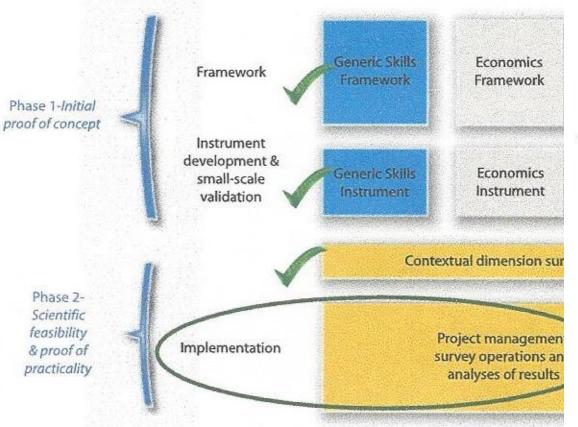


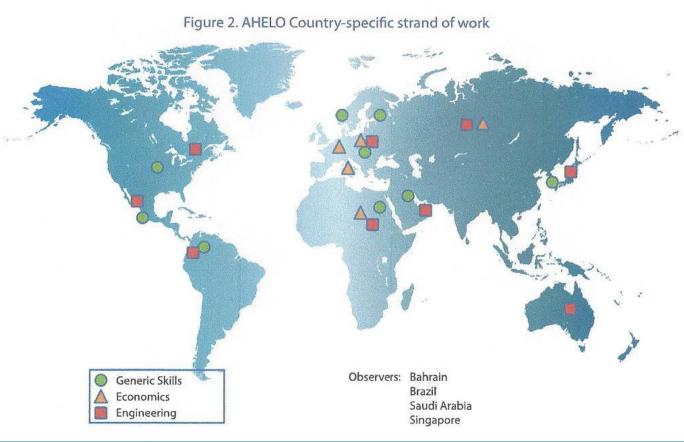
17 countries x 10 HEIs = 20,000 students

www.oecd.org/edu/ahelo

LOs in ≠ settings

OECD Assessment of HE LOs (AHELO) 2010-13 feasibility study



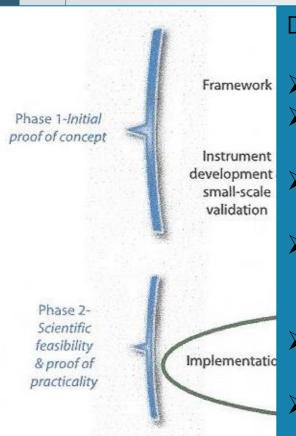




17 countries x 10 HEIs = 20,000 students

www.oecd.org/edu/ahelo

OECD Assessment of HE LOs (AHELO) 2010-13 feasibility study



Deeper (methodological) questions:

- Who or what is really being assessed the students or their HEIs?
- Is the purpose to measure the level of competency achieved or to measure the value added from attending a specific HEIs?
- What can an international assessment provide that national or institutional level instruments cannot and vice versa?
- Is the main purpose of an assessment instrument for measuring LOs to underpin accountability, provide data for improvement or enhance transparency – or all of these?
 - What are the desired LOs of HE and what can/should be measured?
- How might international measures of LOs be mis-used?



17 countries x 10 HEIs = 20,000 students

www.oecd.org/edu/ahelo

ASSESSMENT OF HIGHER EDUCATION
LEARNING OUTCOMES

AHELO

FEASIBILITY STUDY REPORT

VOLUME 1

DESIGN AND IMPLEMENTATION

Karine Tremblay Diane Lalancette Deborah Roseveare ASSESSMENT OF HIGHER EDUCATION LEARNING OUTCOMES

AHELO

FEASIBILITY STUDY REPORT

VOLUME 2

DATA ANALYSIS AND NATIONAL EXPERIENCES



ASSESSMENT OF HIGHER EDUCATION LEARNING OUTCOMES

AHELO

FEASIBILITY STUDY REPORT

VOLUME 3

FURTHER INSIGHTS

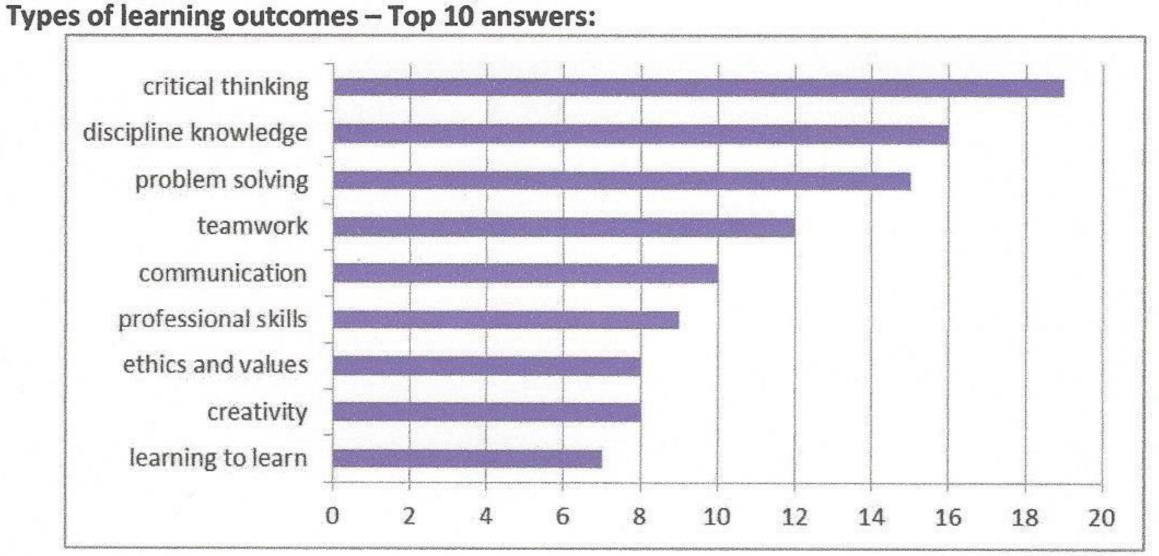




AHE

FEASIE

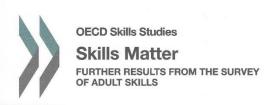








OECD Programme for the International Assessment of Adult Competences (PIAAC):



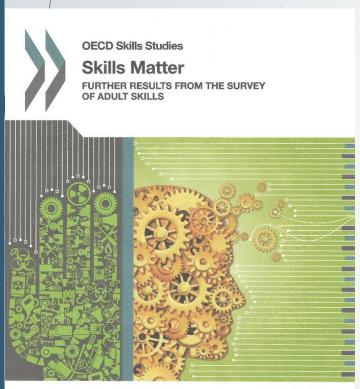




QA in HE quality as added value

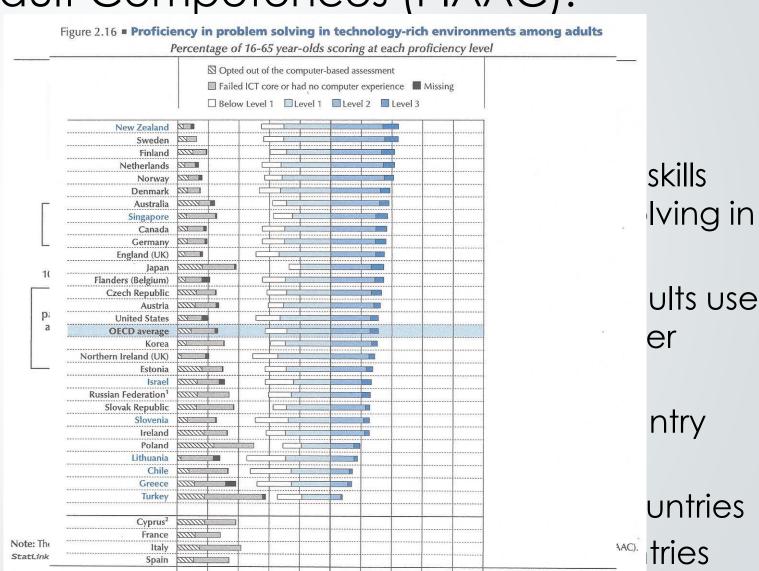
- PISA (15-year olds) for Adults
- Survey of Adults Skills measuring adults' proficiency in key information-processing skills being literacy, numeracy and problem solving in technology-rich environments
- Gathers information and data on how adults use their skills at home, at work and in the wider community
- Take a personal test online and enter country profiles
- Round 1 (2011-12): 166,000 adults in 24 countries
- Round 2 (2014-15): 50,250 adults in 9 countries

OECD Programme for the International Assessment of Adult Competences (PIAAC):

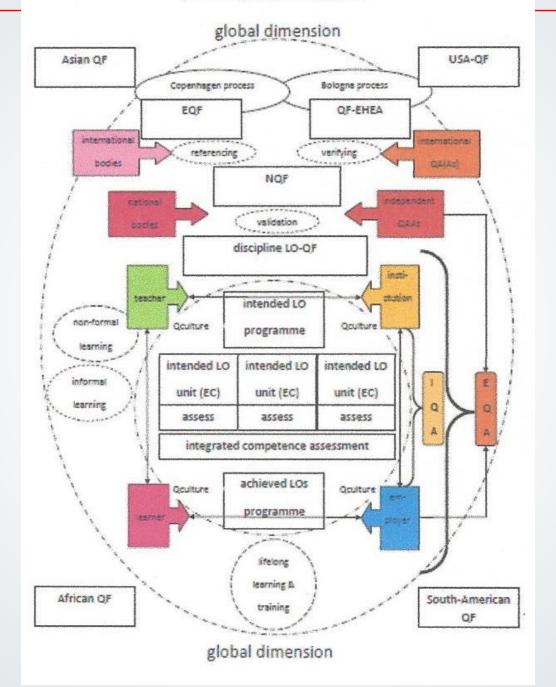












chalifications

- A Framework for Qualifications of The European Higher Education Area
- Ministry of Science Technology and Innovation

bologna proces



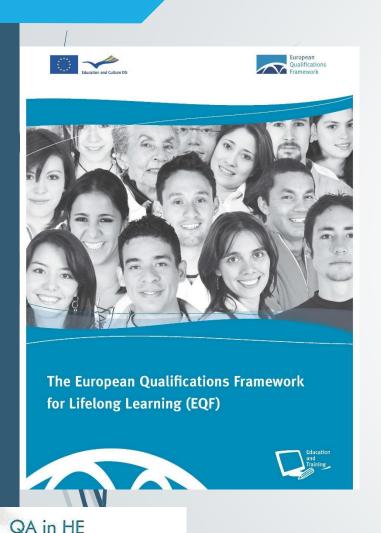
Purposes & nature of QF-EHEA:

- International transparency: to ensure qualifications can be easily read and compared across borders;
- International recognition for various reasons (continuing education, employment, etc) based on a common understanding of the learning outcomes, including competences, of qualifications rather than a mere comparability (ERIC-NARIC);
- International mobility of learners and graduates;
- Improves curriculum design and innovation through flexible pathways and new LOs;
- Helps widening participation and LLL;
- Provides indicators for international QA framework (degree of achievement of LOs).

quality as added value

EQF-LLL (2008/2017)

- > Transparency tool
- Comparative or "translation" device
- Reference levels and descriptors for international and national referencing in...
- Recognition
- Mobility
- Quality Assurance
- Credit systems



ECTS credits

normally

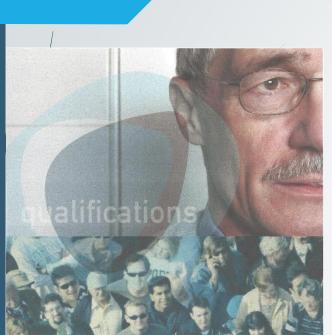
carry

90-120

credits -

minimum

60 ECTS



A Framework for Qualifications of

The European Higher Education Area

Second cycle qualification (1)

outcomes

Qualifications are awarded to students who

- have demonstrated knowledge and understanding that is founded upon and extends and/or enhances that typically associated with the first cycle, and that provides a basis or opportunity for originality in developing at 2nd cycle and/or applying ideas, often within a research context:

- can apply their knowledge and understanding, and problem solving abilities in new or unfamiliar environments within broader (or multidisciplinary) contexts related to their field of study;

- have the ability to integrate knowledge and handle complexity, and formulate judgements with incomplete or limited information, but that include reflecting on social and ethical responsibilities linked to the application of their knowledge and judgements;



quality as added value

learning outcomes

Level 7 <u>knowledge (theoretical and/or practical)</u>

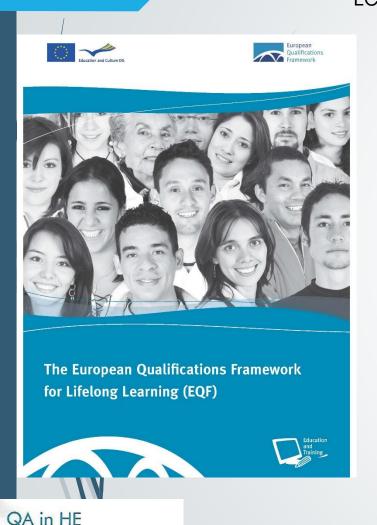
- highly specialised knowledge, some of which is at the forefront of knowledge in a field of work or study, as the basis for original thinking and/or research
- critical awareness of knowledge issues in a field and at the interface between different fields

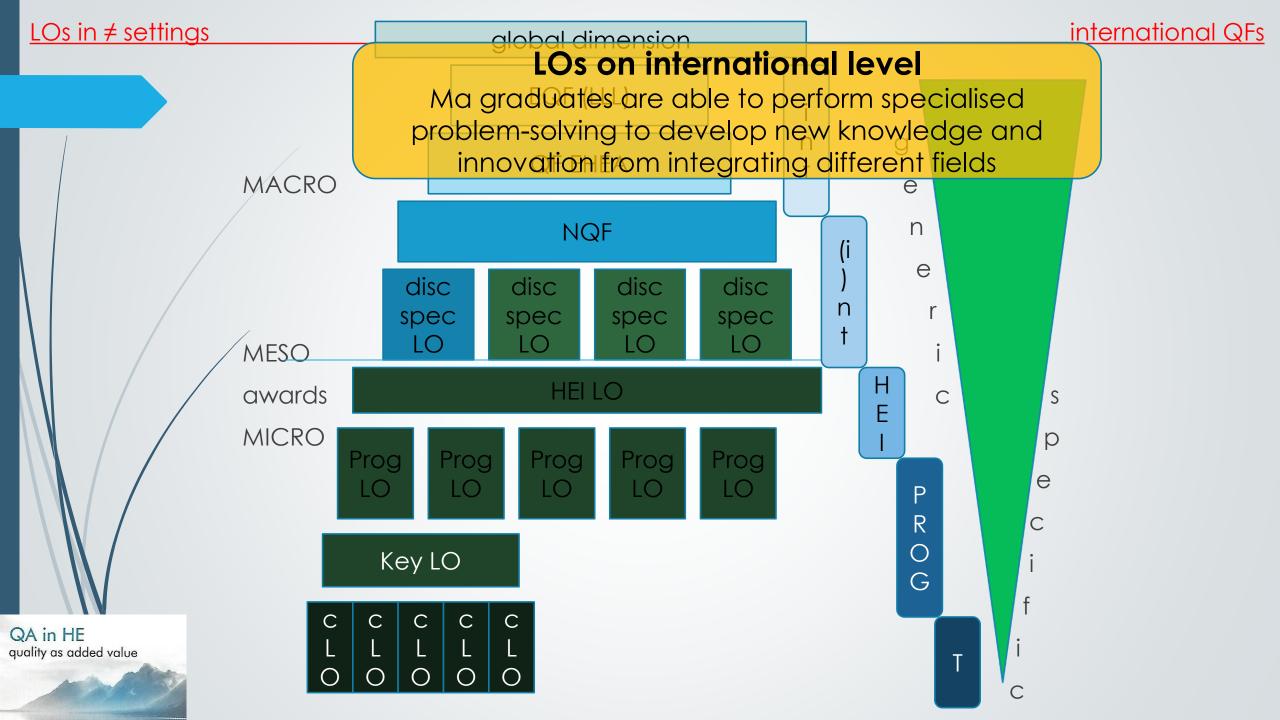
skills (cognitive or practical)

- specialised problem-solving skills required in research and/or innovation in order to develop new knowledge and procedures and to integrate knowledge from different fields

competence (responsibility and autonomy)

- manage and transform work or study contexts that are complex, unpredictable and require new strategic approaches
- take responsibility for contributing to professional knowledge and practice and/or for reviewing the strategic performance of teams





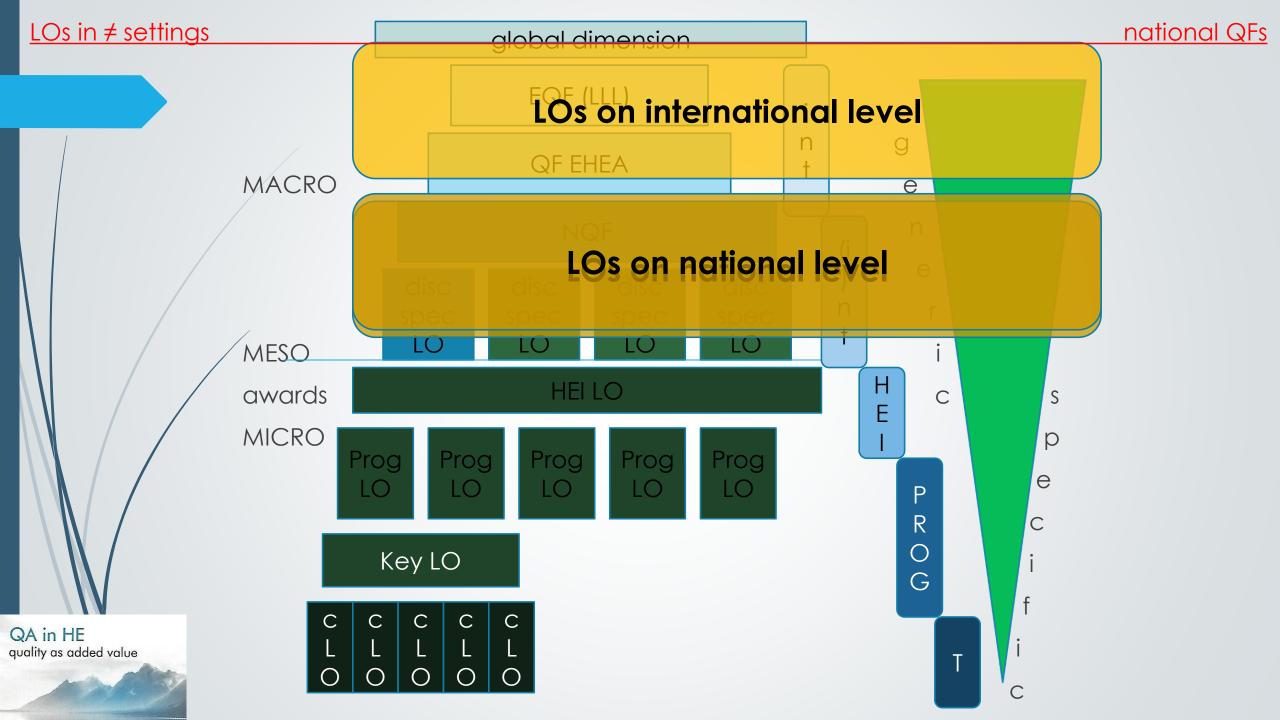
in different settings LOs on NATIONAL LEVEL

Independent international QA expert

seminar: LO: tools & approaches for improving qualifications frameworks in (Uzbek) HE

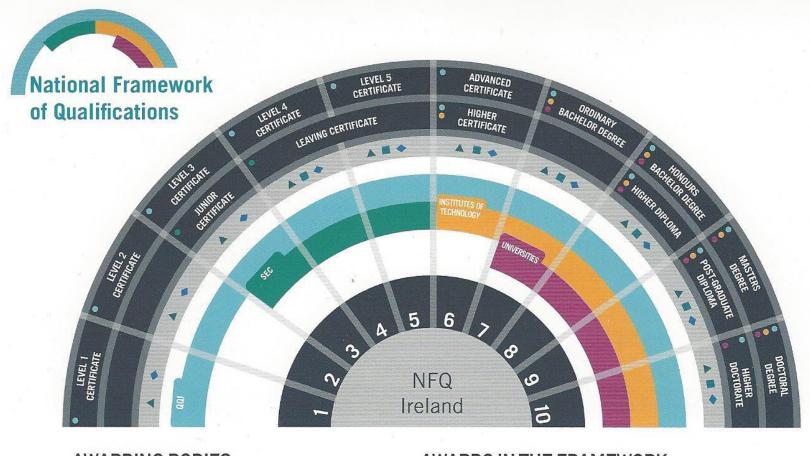
15 November 2017

Tashkent



LOs in ≠ settings national QFs





AWARDING BODIES

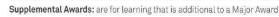
- Quality and Qualifications Ireland (QQI) makes awards in further and higher education and training
- SEC State Examinations Commission (Department of Education and Skills)
- Institutes of Technology
- Universities

AWARDS IN THE FRAMEWORK

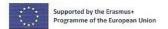
There are four classes of award in the National Framework of Qualifications:



Major Awards: named in the outer rings, are the principal class of awards made at a level
Minor Awards: are for partial completion of the outcomes for a Major Award

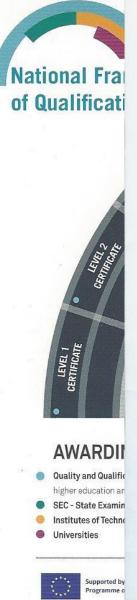


Special Purpose Awards: are for relatively narrow or purpose-specific achievement

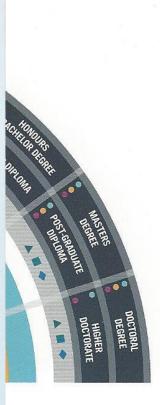














al class of awards made at a level ies for a Major Award al to a Major Award irpose-specific achievement

@QQI 2014

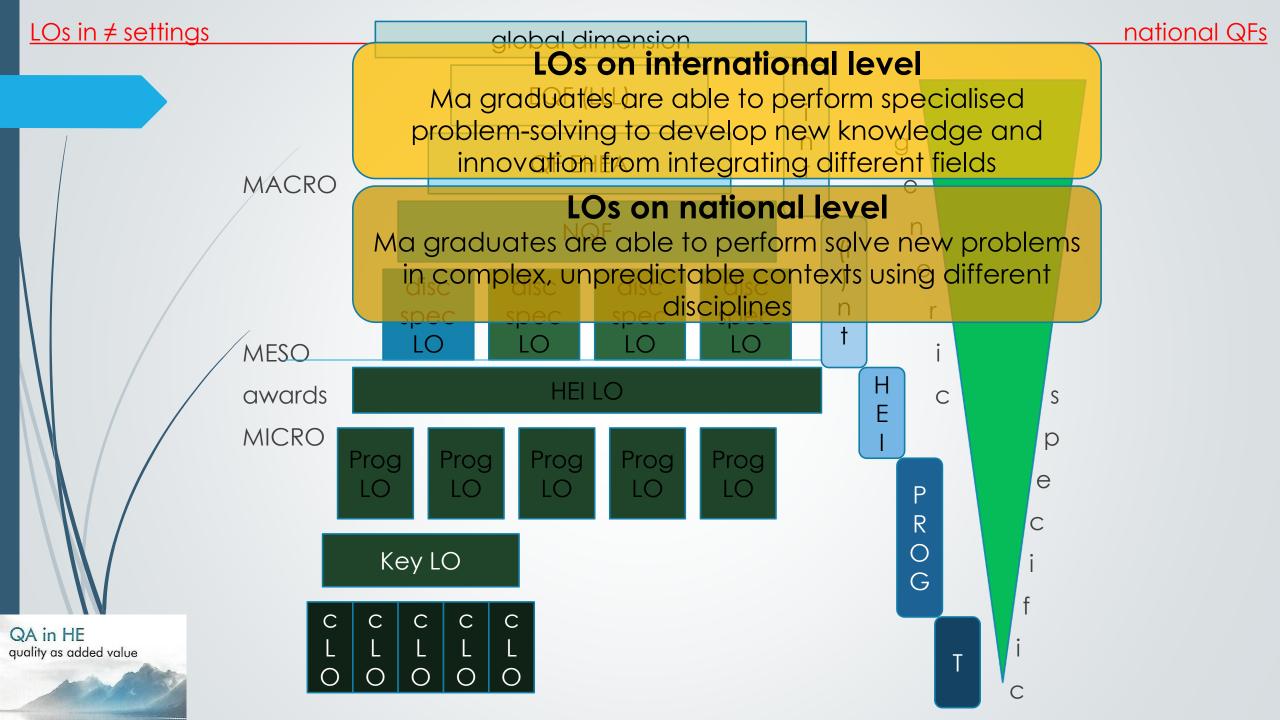
NQFs as drivers of change and enhancement:

- Promote the attainement of qualifications by indicating their role and benefits for society, citizens and employers;
- Facilitate and support learners and clarify all of the educational opportunities available;
- Improve access and social inclusion by creating alternative routes;
- Raise the awareness and opportunities nationally and internationally through recognition and mobility;
- Facilitate curricular change;
- Provide indicators for QA both for enhancement and for accountability.



- ✓ Use the steps and criteria to develop a National Qualifications Framework linked to the international ones (AHELO, PIAAC, QF-EHEA, EQF-LLL)
- ✓ Involve all the stakeholders in the development of a NQF (HEIs, teachers/professors, students, employers, presentatives of the wider community)
- Make sure your national descriptors or learning outcomes are generic enough to cover all programmes, yet clear, easy to understand and to translate to programme level
- ✓ Link your NQF to the cycles or levels of (higher) education
- ✓ Link your NQF to a credit system (ECTS)
- ✓ Link your NQF to a national EQA system and framework
- ✓ Invite representatives of similar or comparable programmes to draft a minimul of national programme threshold LOs



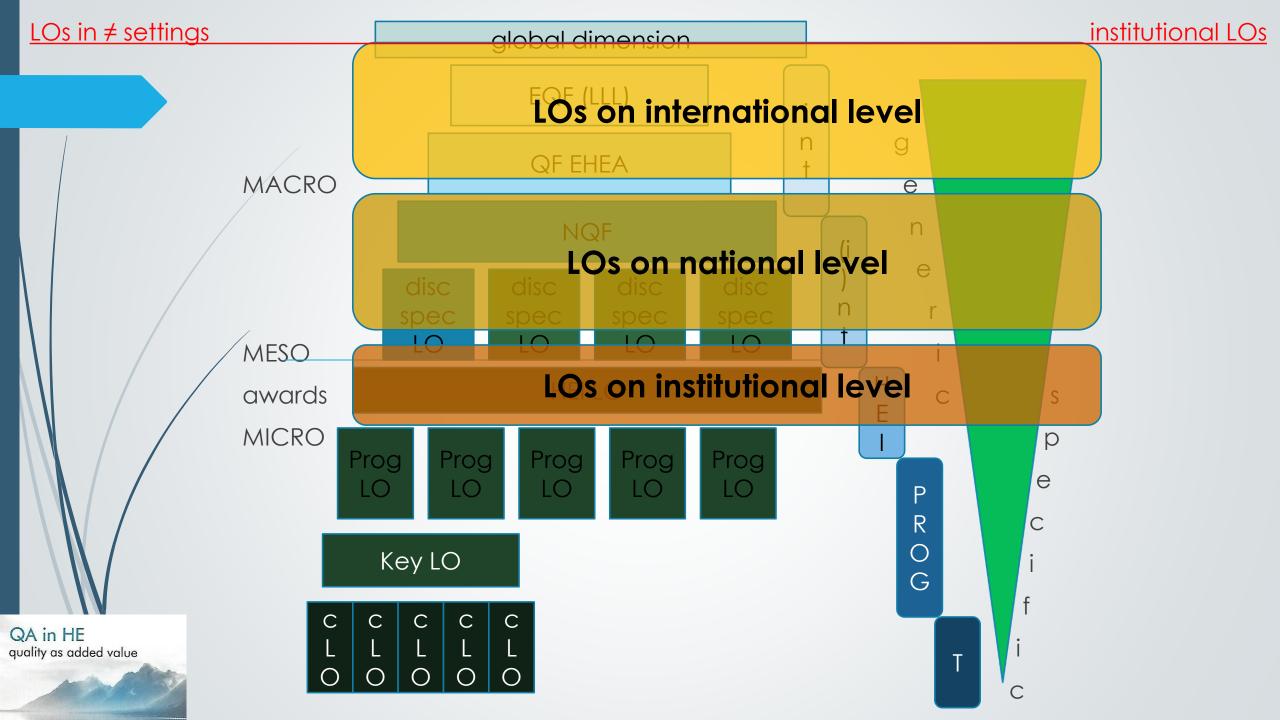


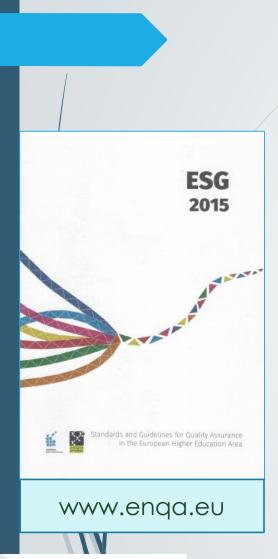
LEARNING OUTCOMES in different settings LOs on INSTITIONAL LEVEL Lucien Bolldert

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15 November 2017





quality as added value

<u>Standard I.2: Design and Approval of Programmes</u>

Guidelines:

"Study programmes are at the core of the higher education institutions' teaching mission. They provide students with both academic knowledge and skills including those that are transferable, which may influence their personal development and may be applied in their future careers.

Programmes

- are designed with overall programme objectives that are in line with the institutional strategy and have explicit intended learning outcomes;
- are designed by involving students and other stakeholders in the work;
- benefit from external expertise and reference points;
- reflect the four purposes of higher education of the Council of Europe;
- define the expected student workload, e.g. in ECTS; (...)"

[preparation for sustainable employment; preparation for life as active citizens in democratic societies; Personal development;

The development and maintenance, through teaching, learning and research, of a broad, advanced knowledge base.

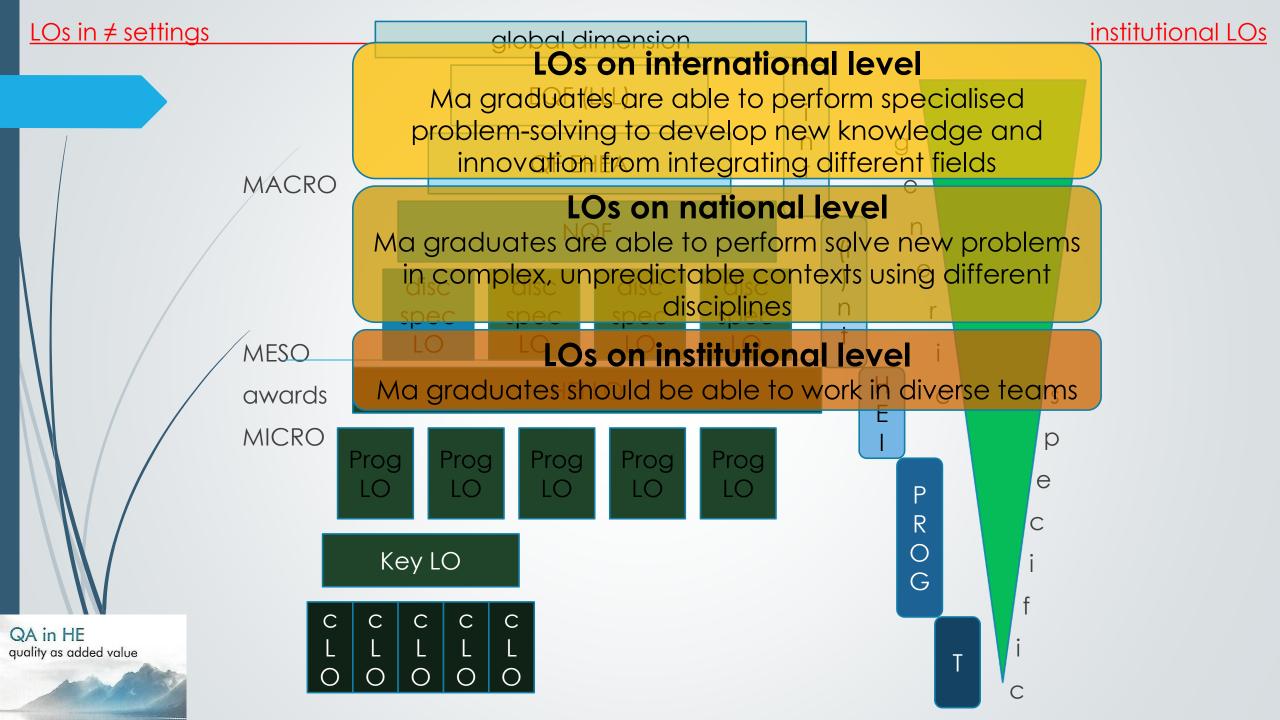
https://www.coe.int/t/dg4/highereducation/PublicResponsibility/Explanatory %20Memorandum%20public%20responsibility_EN.asp]

quality as added value

INSTITUTIONAL STRATEGIC CHOICES on LOS



- Decide on your institutional strategic LOs departing from your vision, mission and strategic policy, e.g. link between teaching, learning and research, multi-cultural diversity, relation with the world of work, learning outcomes as competences?, ...
- Develop and decide formally on a procedure how to write LOs on programme level that is congruent with the national procedure
- Link your strategic institutional LOs and procedure with the development of study programme, their learning and assessment methods
- Link your strategic institutional LOs with your institutional QA to measure the achievement

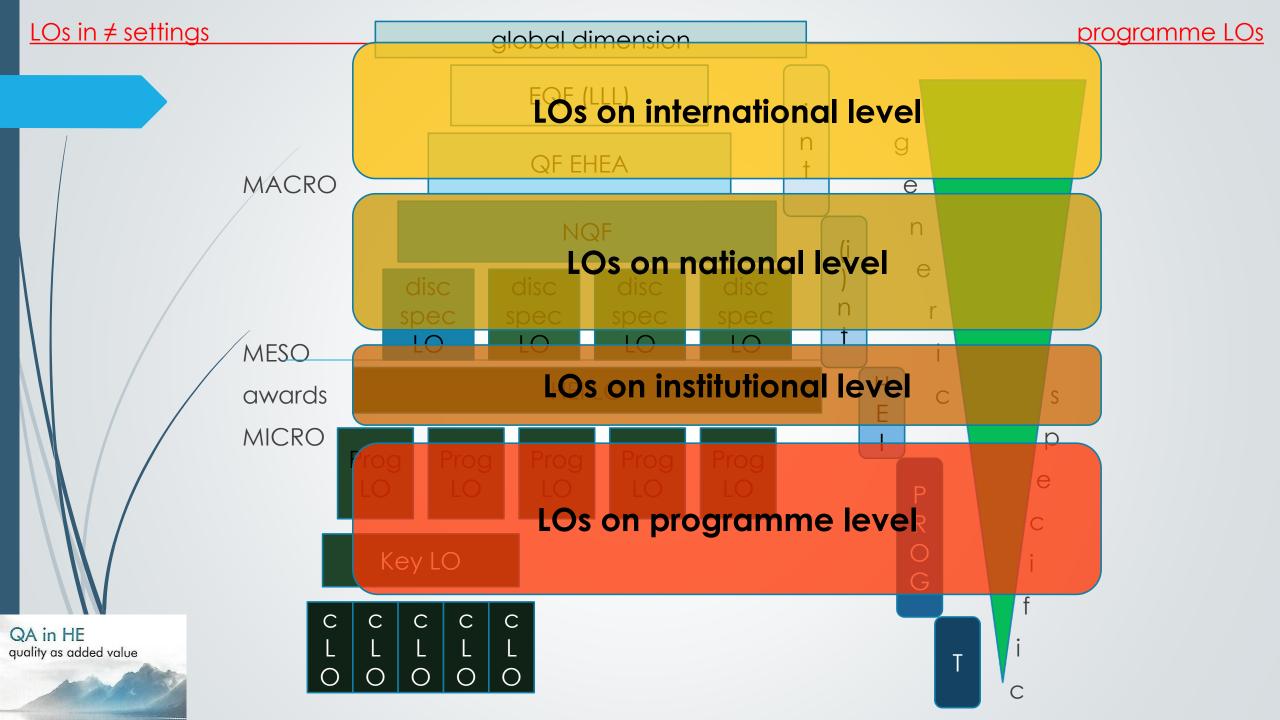


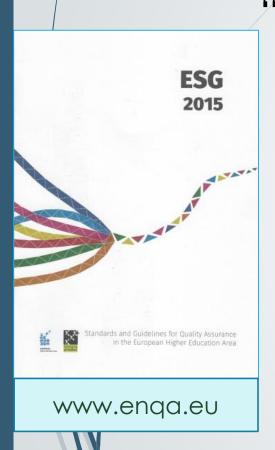
IEARNING OUTCOMES in different settings LOs on PROGRAMME LEVEL Lucien Bolldert

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quality as added value

<u>Standard I.2: Design and Approval of Programmes</u>

"(...) The programmes should be designed so that they meet the objectives set for them, including the intended learning outcomes. The qualification resulting from a programme should be clearly specified and communicated, and refer to the correct level of the national qualifications framework for higher education and, consequently to the Framework for Qualifications of the European Higher Education Area."

quality as added value

course design

Identify aims & objectives

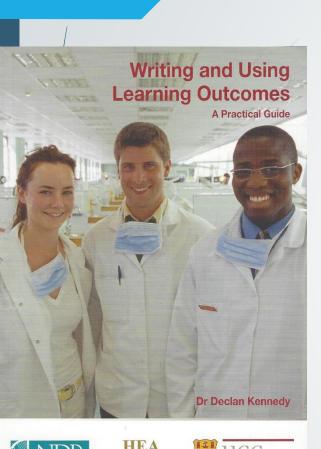
Write LOs using guidelines

Develop a teaching & learning strategy to enable students to achieve the LOs

Design assessment method to test If LOs have been achieved

If necessary modify module content &
Assessment in light of feedback

Make of the LO living things that are formulated by the stakeholders, shared by the whole team and shape the teaching, learning and assessment forms!



- ✓ Begin each outcome with an active verb after a phrase like On successful completion of this programme/module/ course... students should be able to...
- Avoid ambiguous or unclear verbs like to know, to understand, to learn, to be familiar with, to be exposed to, to appreciate, etc.
- ✓ The learning outcome should be observable and measurable
- ✓ Be sure all the LOs fit within the aims and content of the programme/HEI's strategic LO/National and International Qualifications Frameworks
- ✓ Make use of the range of levels of Bloom's Taxonomy

AFFECTIVE DOMAIN:

Value issues (attitudes)

- 5. Characterisation
- 4. Organisation
- 3. Valuing
- 2. Responding
- 1. Receiving

muscular activity

PSYCHOMOTOR DOMAIN: Co-ordination of brain & Bloom's Taxonomy

create

Produce new or original work

Design, assemble, construct, conjecture, develop, formulate, author, investigate

evaluate

Justify a stand or decision

appraise, argue, defend, judge, select, support, value, critique, weigh

analyze

apply

understand

remember

Draw connections among ideas

differentiate, organize, relate, compare, contrast, distinguish, examine, experiment, question, test

Use information in new situations

execute, implement, solve, use, demonstrate, interpret, operate, schedule, sketch

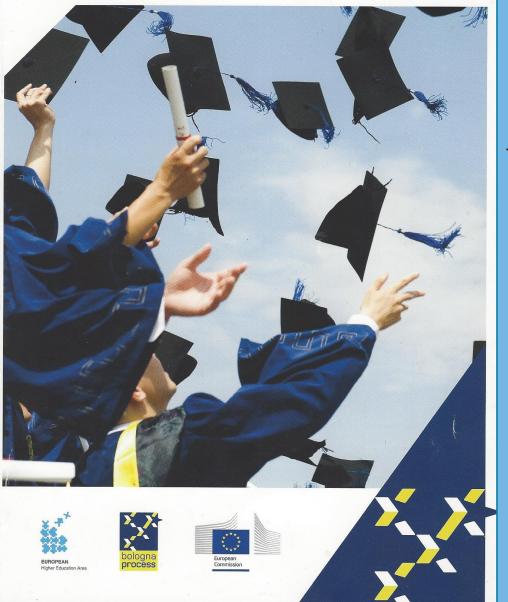
Explain ideas or concepts

classify, describe, discuss, explain, identify, locate, recognize, report, select, translate

Recall facts and basic concepts

define, duplicate, list, memorize, repeat, state

ECTS Users' Guide



- LO = statements of what the individual knows, understands and is able to do on completion of a learning process.
- LOs are attributed to individual educational components and to programmes at a whole.

Programme LOs

- ✓ should adequately reflect the context, level, scope and content of the programme
- ✓ have to be mutually consistent
- ✓ have to be succinct and not too detailed
- ✓ have to be linked with appropriate learning activities, assessment methods and assessment criteria
- ✓ have to be achievable within the specified workload
- ✓ The achievement of LOs has to be assessed through procedures based on clear and transparent criteria.

LOs in ≠ settings programme LOs

COURSE CATALOGUE



2017-18

Career perspectives:



	study programma:	qualification/degree:	QF-EHEA:	EQF:
	Faculty/School:	Study field:	ECTS:	
	Admission requirements: Title course/module 1:		Academic year:	
			Semester:	
	Title course/module 2:		Exam periods:	
	Title course/module 3: Programme LO 1:		Optional courses:	
	Programme LO 2:		Internationalisation:	
	Programme LO 3:		Practical information:	



quality as added value

- Develop a national procedure to invite all representatives of similar or related programmes to formulate the national programme LOs
- Develop and decide on a national procedure how to link programme LOs with the more generic outcome descriptors of the cycles or levels in the NQF (validation)
- ✓ Be sure they cover all the categories of descriptors of the NQF (knowledge, understanding, abilities or skills, competences, contexts, etc.)
- ✓ Use the same buswords used in the NQF (verbs, adjectives for levels, nouns for areas e.g. creativity, LLL, international mindset, etc.)
- ✓ Link the national programme LOs with one or more NQF descriptors



quality as added value

- ✓ Limit the number of programme LOs to 10 or 12
- ✓ Let the draft be commented by the relevant stakeholders i.e. employers/alumni and students
- ✓Insert and/or translate the institutional LOs into your programme ones
- ✓ Edit a course catalogue with ECTS (1 credit = 25-30 hrs)
- ✓ Leave room for individual LOs to individual programmes, to ownership of unique profiles, to experimentation and creativity

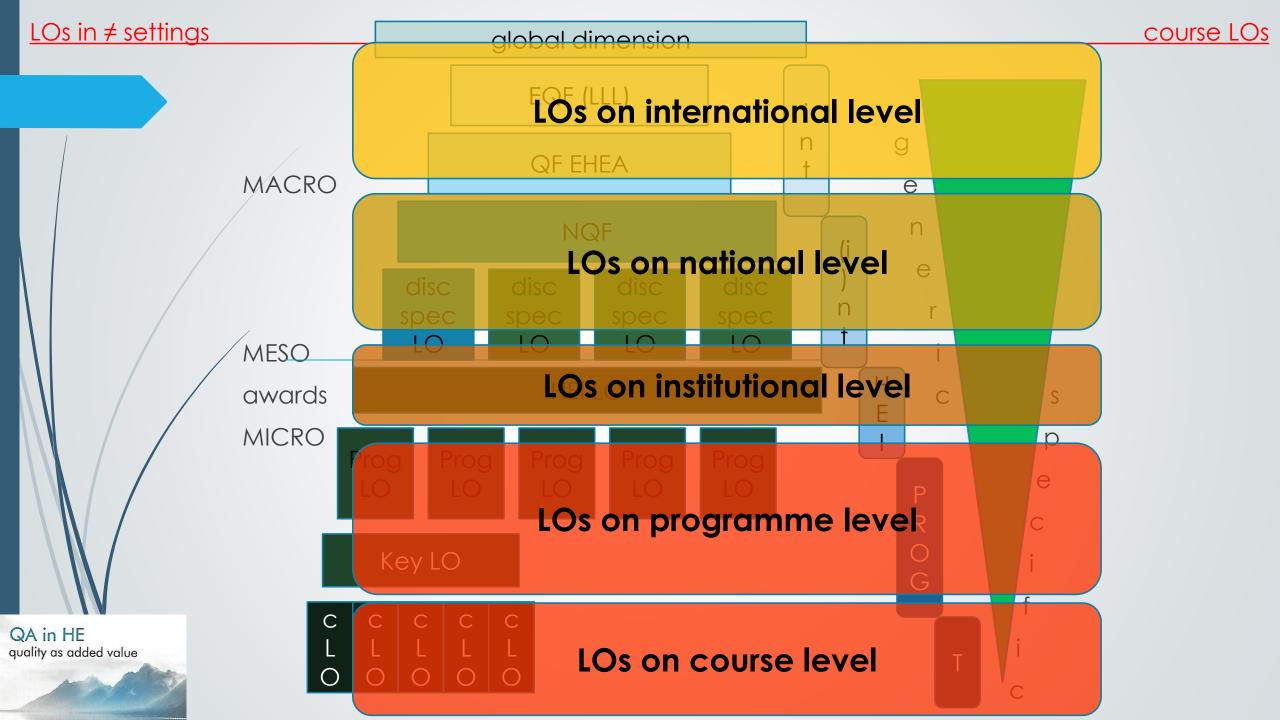
LOs in ≠ settings programme LOs alabal dimension LOs on international level Ma graduates are able to perform specialised problem-solving to develop new knowledge and innovation from integrating different fields MACRO LOs on national level Ma graduates are able to perform solve new problems in complex, unpredictable contexts using different disciplines LOs on institutional level MESO Ma graduates should be able to work in diverse teams awards **MICRO** LOs on programme level Ma graduates should be able to use, manipulate and create large computational systems to solve new problems in industrial environments QA in HE quality as added value

in different settings LOs on COURSE LEVEL Lucien Bolldert

Independent international QA expert

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LOs in ≠ settings course LOs

COURSE CATALOGUE



2017-18



	study programma:	qualification/degree:	QF-EHEA:	EQF:
	Prof/lecturer/team:	Title course:	ECTS:	
	Admission requirements:		Contact hours/lectures:	
	Course structure/chapters: 1., 2., 3, Course content: Course LOs: LO 1, LO 2, LO 3, Assessment methods: Assessment criteria:		Participative seminars:	
			Group work:	
			Individual work/study:	
			Assessment hours:	
			Max:	

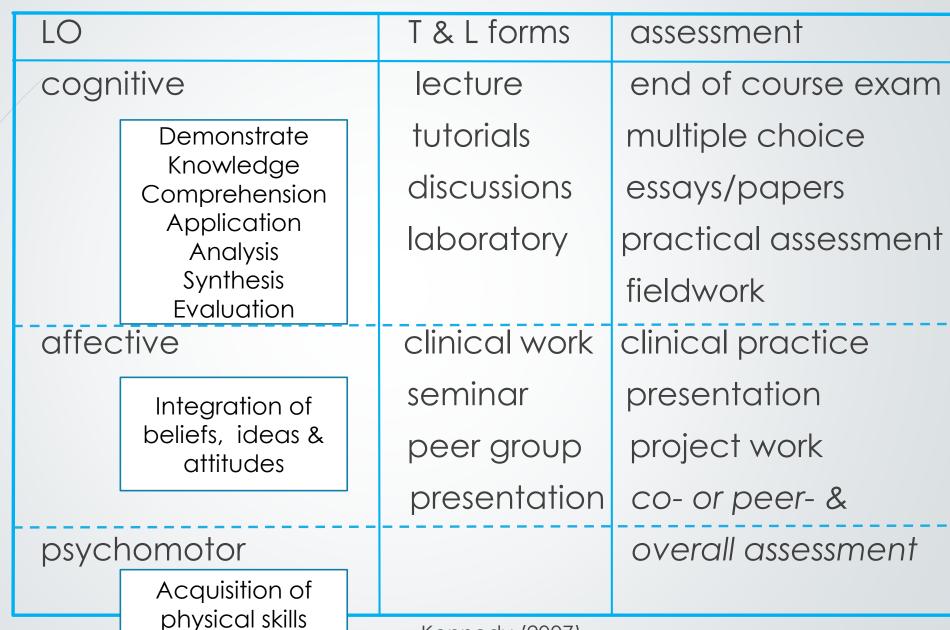
Didactic materials:

Further compulsory/elective reading:

Practical information:

LOs in ≠ settings

necessary congruence between LO, learning & assessment



QA in HE quality as added value

Kennedy (2007)

COURSE



2017-18



- ✓ Be sure all the LOs fit within the aims and content of the programme/HEI's strategic LO/National and International Qualifications Frameworks
- ✓ Begin each outcome with an active verb after a phrase like On successful completion of this programme/module/ course... students should be able to...
- Avoid ambiguous or unclear verbs like to know, to understand, to learn, to be familiar with, to be exposed to, to appreciate, etc.
- ✓ The learning outcome should be observable and measurable
- ✓ Make use of the range of levels of Bloom's Taxonomy
- Make sure the assessment and teaching/learning method(s) are congruent with the LOs
- ✓ Leave place for experimentation and ownership

LEARNING OUTCOMES in different settings THANKS Q & A

Independent international QA expert

Lucien Bollaert

seminar: LO: tools & approaches for improving qualifications frameworks in (Uzbek) HE

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