

THAILAND-EUROPEAN UNION Policy Dialogues Support Facility

Case Study: Implementing a QF with LOs, credits & QA





Funded by the European Union and implemented by a Consortium led by GOPA Consultants

11 May 2015

http://www.scqf.org.uk/features/Framework.htm

THE SCOTTISH CREDIT AND QUALIFICATIONS FRAMEWORK

This Framework diagram has been produced to show the mainstream Scottish qualifications already credit rated by SQA and HEIs. However, there are a diverse number of learning programmes on the Framework, which, due to the limitations of this format, cannot be represented here. For more information, please visit the SCQF website at www.scqf.org.uk to view the interactive version of the Framework or search the Database. N.B. MA Frameworks have a notional level on the SCQF, but all component parts are credit rated

scottish credit and qualifications framework

SCQF Levels	SQA Qualifications				Qualifications of Higher Education Institutions	SVQs/MAs
12				Doctoral Degree	Professional Apprenticeship	
11	Some SQA qu			Masters Degree, Integrated Masters Degree, Post Graduate Diploma, Post Graduate Certificate	Professional Apprenticeship SVQ 5	
10	changing between 2013-2016. See www.sqa.org.uk/readyreckoner				Honours Degree, Graduate Diploma, Graduate Certificate	Professional Apprenticeship
9		Professional Development Award		Bachelors / Ordinary Degree, Graduate Diploma, Graduate Certificate	Technical Apprenticeship SVQ 4	
8		Higher National Diploma			Diploma Of Higher Education	Technical Apprenticeship SVQ 4
7	Advanced Higher Scottish Baccalaureate	Higher National Certificate			Certificate Of Higher Education	Modern Apprenticeship SVQ 3
6	Higher					Modern Apprenticeship SVQ 3
5	National 5 Intermediate 2					Modern Apprenticeship SVQ 2
4	National 4 Intermediate 1	National Certificate	National Progression Award			SVQ 1
3	National 3 Access 3					
2	National 2 Access 2		/			
1	National 1 Access 1					





Degrees and awards of HEIs in Scotland:

UG/first cycle (4 levels/stages): Certificate of HE; Diploma of HE; Ordinary Degree; Honours Degree; PG: second cycle: Master's Degree PG: third cycle: Doctoral Degree

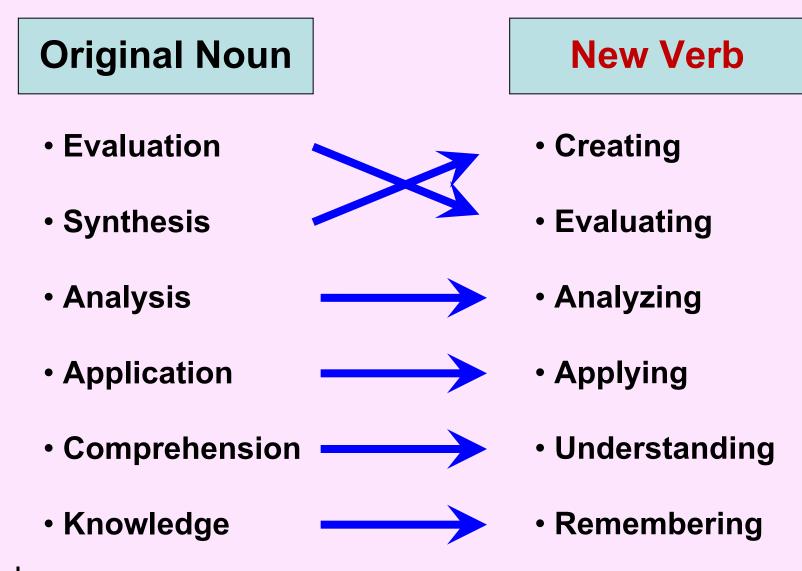
- General description; characteristic outcomes; 'typical' learning outcomes
- SCQF level (described by generic SCQF level descriptors)
- SCQF/ECTS credits, with min number of credits at level of award







Bloom's Revised Taxonomy (cognitive domain)



ที่มา: http://www.nwlink.com/~Donclark/hrd/bloom.html

Categorising learning

- Bloom's taxonomy: 3 domains, 5-7 levels
- National QFs: 2,3,4,5,6,7, or 8 domains;
 5,6,7,8,9,10, or 12 levels;
- Remember: context is paramount!
- Bloom, Anderson, Krathwohl, Cruikshank et al worked at *generic* level – NQFs *specific*
- HE mostly within cognitive domain
- 'Domains' = types: horizontal, no progression
- levels = hierarchy: vertical, progression





Levels/hierarchy of Learning

Indicative verbs for ILOs

Increasing level □	Memorise, identify, recognise, current, define, draw, find, label, match, name, quote, recall, recite, order, tell, write, imitate				
	Classify, described, list, report, discuss, illustrate, select, narrate, compute, sequence, outline, separate				
	Apply, integrate, analyse, explain, predict, conclude, summarise (précis), review, argue, transfer, make a plan, characterise, compare, contrast, differentiate, organise, debate, make a case, construct, review and rewrite, examine, translate, paraphrase, solve a problem				
	Theorise, hypothesise, generalise, reflect, generate, create, compose, invent, originate, prove from first principles, make an original case, solve from first principles				

Biggs & Tang 2011: p123



Logo

Partner

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Levels/hierarchy of learning

More indicative verbs for ILOs

Remembering	Define, describe, draw, find, identify, label, list, match, mean, quote, recall, recite, tell, write					
Understanding	Classify, compare, conclude, demonstrate, discuss, exemplify, explain, identify, illustrate, interpret, paraphrase, predict, report					
Applying	Apply, change, choose, compute, dramatise, implement, interview, prepare, produce, role-play, select, show, transfer, use					
Analysing	Analyse, characterise, classify, compare, contrast, debate, deconstruct, deduce, differentiate, discriminate, distinguish, examine, organise, outline, relate, research, separate, structure					
Evaluating	Appraise, argue, assess, choose, conclude, critique, decide, evaluate, judge, justify, monitor, predict, prioritise, prove, rank, rate, select					
Creating	Compose, construct, create, design, develop, generate, hypothesise, invent, make, perform, plan, produce					

Biggs & Tang 2011: p124

he reference for more information on the concept of constructive alignment





Levels/hierarchy of learning: SCQF

SCQF glossary

Across each Characteristic, terms progress from least to most advanced: information ... data

facts ... ideas ... theories ... concepts

a few ... some ... limited range ... range ... wide range ... significant range

simple ... basic ... routine ... straightforward with non-routine ... advanced ... specialised

personal ... everyday/commonplace ... familiar/straightforward ... unfamiliar/new ... routine ... forefront

an appreciation ... an overall appreciation ... a knowledge ... an understanding ... a critical understanding





LOs at Umbrella QF level (SCQF 10)

CHARACTERISTIC 1: KNOWLEDGE AND UNDERSTANDING Demonstrate and/or work with:

- An overall appreciation of the body of knowledge that constitutes a subject/discipline/sector.
- Knowledge that is embedded in the main theories, concepts and principles of the subject/discipline/sector.
- An awareness of the dynamic nature of knowledge and understanding.
- An understanding of the difference between explanations based on evidence and/or research and other sources, and of the importance of this difference.

CHARACTERISTIC 2: PRACTICE- APPLY KNOWLEDGE, SKILLS AND UNDERSTANDING:

- In practical contexts.
- In using some of the basic and routine professional skills, techniques, practices and/or materials associated with the subject/discipline/sector.
- To practise these in both routine and non-routine contexts.

CHARACTERISTIC 3: GENERIC COGNITIVE SKILLS

- Present and evaluate arguments, information and ideas that are routine to a subject/discipline/sector.
- Use a range of approaches to address defined and/or routine problems & issues within familiar contexts.





LOs at Umbrella QF level (SCQF 10)

CHARACTERISTIC 4: COMMUNICATION, ICT AND NUMERACY SKILLS

Use a wide range of routine skills & some advanced skills associated with a subject/discipline/sector, for example:

- Convey complex ideas in well-structured and coherent form.
- Use a range of forms of communication effectively in both familiar and unfamiliar contexts.
- Select & use standard ICT applications to process & obtain a variety of information & data.
- Use a range of numerical and graphical skills in combination.
- Use numerical and graphical data to measure progress and achieve goals/targets.

CHARACTERISTIC 5: AUTONOMY, ACCOUNTABILITY AND WORKING WITH OTHERS

- Exercise some initiative and independence in carrying out defined activities at a professional level in practice or in a subject/discipline/sector.
- Accept supervision in less familiar areas of work.
- Exercise some managerial or supervisory responsibility for the work of others within a defined and supervised structure.
- Manage limited resources within defined areas of work.
- Take the lead in implementing agreed plans in familiar or defined contexts.
- Take account of own & others' roles & responsibilities when carrying out & evaluating tasks.





NQF-HE LOs: Bachelor with Honours 'characteristic outcomes'

i A **broad and comparative knowledge** of the general scope of the subject, its different areas and applications, and its **interactions** with related subjects. A **detailed knowledge** of a defined subject or a more **limited coverage of a specialist area** balanced by a wider range of study. In each case, specialised study will be **informed by current developments** in the subject.

ii A critical understanding of the essential theories, principles and concepts of the subject(s) and of the ways in which these are developed through the main methods of enquiry in the subject. An awareness of the provisional nature of knowledge.

iii Familiarity and competence in the use of routine materials, practices and skills and of a few that are more specialised, advanced & complex.

iv Well developed skills for the gathering, evaluation, analysis and presentation of information, ideas, concepts and quantitative and/or qualitative data, drawing on a wide range of current sources. This will include the use of ICT as appropriate to the subject(s).





NQF-HE LOs: Bachelor with Honours

Typically, holders of the degree will be able to:

a) use their knowledge, understanding and skills, in both **identifying and analysing** problems and issues and in **formulating**, evaluating and **applying** evidence-based **solutions** and **arguments**

b) communicate the results of their studies and other work accurately and reliably in a range of different contexts using the main specialist concepts, constructs and techniques of the subject(s)

c) **identify and address** their own learning needs, including being able to **draw on a range** of **current** research, development and professional materials

d) **apply their subject and transferable skills** to contexts where criteria for decisions and the scope of the task may be **well defined** but where personal **responsibility, initiative & decision-making is also required**.





C1 Knowledge & Understanding

NB: Level Descriptors are for guidance only: it is not expected that every point will necessarily be covered! LEVEL 7 - Demonstrate and/or work with:

- An **overall appreciation** of the **body of knowledge** that constitutes a subject/discipline/sector.
- Knowledge that is embedded in the **main theories, concepts and principles** of the subject/discipline/sector.
- An awareness of the dynamic nature of knowledge and understanding.
- An **understanding of the difference** between explanations based on evidence and/or research & other sources, and of the importance of this difference.
- **LEVEL 8** Demonstrate and/or work with:
- A knowledge of the scope, defining features, & main areas of the subject/discipline/sector.
- Specialist knowledge in some areas.
- A **discerning understanding** of a **defined range** of core theories, concepts, principles and terminology.
- Awareness and understanding of some major current issues and specialisms.
- Awareness and understanding of research and equivalent scholarly/academic processes.





C1 Knowledge & Understanding

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LEVEL 9 • Demonstrate and/or work with:

- An understanding of the scope and defining features of a subject/discipline/sector, and an integrated knowledge of its main areas and boundaries.
- A critical understanding of a range of the principles, principal theories, concepts and terminology of the subject/discipline/sector.
- Knowledge of one or more **specialisms** that is informed by **forefront developments**.

LEVEL 10 • Demonstrate and/or work with:

- Knowledge that covers and integrates most of the principal areas, features, boundaries, terminology and conventions of a subject/discipline/sector.
- A critical understanding of the principal theories, concepts and principles.
- Detailed knowledge and understanding in one or more specialisms, some of which is informed by, or at the forefront of, a subject/discipline/sector.
- Knowledge & understanding of the ways in which the subject/discipline/sector is **developed**, including a **range of established techniques of enquiry or research methodologies**.





Enhancement-Led Institutional Review (QAAS)

Part of Quality Enhancement Framework, which also includes: 'Quality Enhancement Themes' (dissemination of best international practice); institution-led quality review (subject level); student engagement in quality management; public information on quality

Universities must take into account several 'reference points': Quality Code Subject Benchmark Statements (QAA); Framework for Qualifications of HEIs in Scotland; UK Professional Standards Framework; Quality Enhancement Themes.

'Reflective Analysis' document must describe how the institution uses these benchmarks

External Review (ELIR) examines how the institution does so in practice, using peer reviewers, including a student and an international reviewer





Writing Learning Outcomes

LOs have 3 parts: active verb (what learner can do); topic; context Example: "Apply [verb] the concept of constructive curriculum alignment [topic] in teaching practice in higher education" [context] LOs should be:

• fit for purpose & context.

Logo

Partner

- at programme level, relatively broad & generic
- at module or class level, relatively detailed & specific
- aligned to appropriate level of QF
- aligned with teaching, learning and assessment tasks [source: 'Learning Outcomes Topic Guide', Alan T. Davidson, 2013]



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Alignment Between Course Outcomes and Institutional Outcomes



Intended Intended Intended Intended Intended Learning Learning Learning Learning Learning **Outcomes of Outcomes of Outcomes of Outcomes of Outcomes of** the Academic the Institution the Lesson the Unit the Course **Program Deliver Forward**

Scotland: LOs at level of module

Physiotherapy :

SCQF Level 7 SCQF Credits 30 ECTS credits 15

Aims of module: To provide the student with an understanding of the structure and function of the human body.

On completion of this module, students will be able to:

1. Describe the position & orientation of major structures in the body.

- 2. Describe the structure and function of the different cells and tissues of the human body.
- 3. Identify & describe the structure of the major systems of the body.
- 4. Describe the functions of the major systems.
- 5. Relate the structure to the functions of the major systems.





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Scotland: LOs at level of module

Physiotherapy : Clinical Education CA7

SCQF Level 10 SCQF Credits 15 ECTS credits 7.5 Aims of module: To enable students to apply knowledge and skills in the assessment and treatment of patients to the practice setting On completion of this module, students will be able to:

- 1) Independently **plan**, **implement** and **evaluate** physio-therapeutic **programmes** which address the **holistic** needs of the patients.
- 2) Evaluate the roles of *all the MDT members* involved in the *holistic management* of patients.
- 3) **Provide a co–ordinated approach** to care through **facilitating interaction** with other professionals and carers.
- 4) Contribute to his/her personal and professional development by reflection on their practice and own values, beliefs and attitudes.
- **5)** Take full responsibility for the organisation of physiotherapy provision and the discharge of patients.





'Best fit' concept/approach

- NO NQF fits exactly with Bloom etc.
- NQFs don't fit exactly with 'regional' QFs
- Different, but complementary purposes
- 'umbrella' NQFs don't fit exactly with QFs for VET or HE or schools
- HE QFs don't fit exactly with context, vision etc. of individual HEIs





Things don't need to be identical!







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The right tool for the job!

Generic

Precision









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3	National 3 Access 3										
2	National 2 Access 2		,								
1	National 1 Access 1										





Situation of Scottish higher education

- Fully integrated into EHEA one of 1st to have HE QF, LLL QF, QA processes & agency for HE verified against European standards
- Despite no 'seat at the table', strongly influenced developments
- Genuine partnership, engagement & shared goals of stakeholders

 universities, quality agency, students, government, employers
- Quality Enhancement Framework universities, students, QAA all working in cooperation to improve student experience/outcomes
- Recognised at forefront: NQFs, LOs, QA, student engagement
- Thousands of students switch from 2-yr VET to 3rd yr of degree
- High graduate employment 87%, student satisfaction 86%
- Greater trust, autonomy, funding, stability for universities





'Generic' does not/cannot fit 'local'

- NO NQF fits exactly with Bloom etc.
- NQFs don't fit exactly with 'regional' QFs
- Different, but complementary purposes
- 'umbrella' NQFs don't fit exactly with QFs for VET or HE or schools (nor QF-EHEA/EQF-LLL)
- HE QFs don't fit exactly with context, vision etc. of *individual* HEIs
- 'Best fit' is a virtue, not a vice!





Other lessons learned

- 'stakeholder' input essential
- international input positive: often appreciates value of 'local' aspects & context
- implementation brings relevant organic convergence
- Engagement brings mutual confidence, leads to better recognition and understanding
- Reforms a 'package' the more implemented, the greater the mutual confidence/recognition
- elements can be ordered, located, implemented in local context & culture
- QFs can provide stable context for dynamic systems



