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The pathways to recognition. A contribution to the Sustainable Development Goals (SDG) from a Lifelong Learning Perspective

Recognition of Skills and Qualifications in a sustainable development context: trends and new perspectives

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NQFs: Sustainable Development device



- 1. Qualifications agenda in the context of the SDGs and Education 2030
- 2. Shifts in qualifications and learning pathways
- 3. Labour market changes affecting qualifications
- 4. Leveraging digital technologies for recognition of skills and qualifications
- 5. UNESCO's work in the field of recognition of skills and qualifications





Qualifications in the context of the SDGs and Education 2030

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EDUCATION AND TRAINING IN THE CONTEXT OF THE SUSTAINABLE DEVELOPMENT GOALS



17 Sustainable Development Goals (SDGs)





UNESCO EDUCATION SECTOR

SDG 4: Ensure inclusive and equitable quality education and promote lifelong learning opportunities for all

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SDG targets related to qualifications





SDG 4: Ensure inclusive and equitable quality education and promote lifelong learning opportunities for all

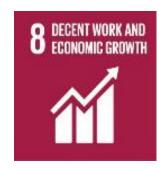
By 2030, SDG 4 calls on Member States to:

- Ensure equal access to affordable and quality TVET programmes (target 4.3)
- Substantially increase the number of youth and adults with **relevant** skills for employment, decent jobs and entrepreneurship (4.4)
- Eliminate gender disparities in education (4.5)
- Ensure that all learners acquire the knowledge and skills needed to promote sustainable development (4.7)

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SDG targets related to Qualifications

SDG 8: Promote inclusive and sustainable economic growth, employment and decent work for all

SDG 8 calls on Member States to:

- By 2030, achieve full and productive employment and decent work for all women and men, including for young people and persons with disabilities, and equal pay for work of equal value (target 8.5)
- By 2020, substantially reduce the proportion of youth not in employment,
 education or training (8.6)

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Qualifications: Sustainable Development Device



- Qualifications of Water management workforce
- Qualifications of Health workforce
- Qualifications for Green economies
- Qualifications for culture and intangible heritage



Indicative Strategies related to recognition of qualifications and learning pathways



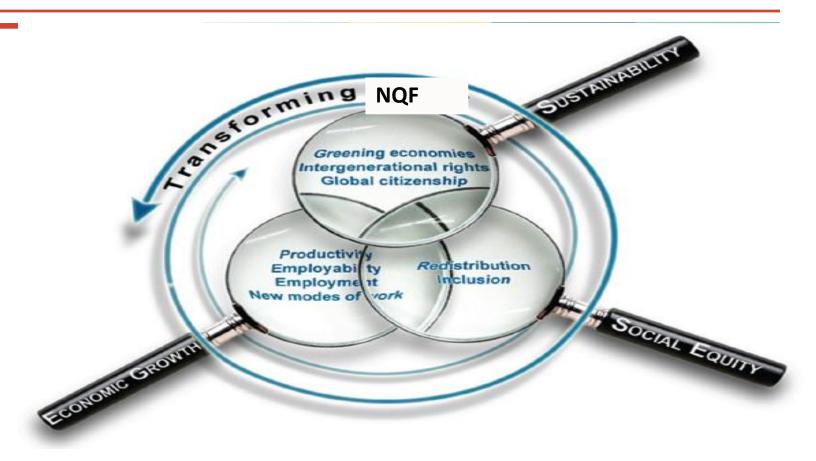
- 1. Gather and use evidence about changing skills demand to guide skills development.
- 2. Engage social partners in designing and delivering education and training programmes that are evidence-based and holistic
- 3. Ensure transparent and efficient TVET quality assurance systems and develop qualifications frameworks.
- 4. Promote collaboration on enhancing transparency and cross-border recognition of TVET qualifications
- 5. Promote flexible learning pathways in both formal and non-formal settings;
- 6. Enable learners to accumulate and transfer credits for levels of achievement;
- 7. Recognise, validate and accredit prior learning; and
- 8. Establish appropriate bridging programmes and career guidance and counselling services.



Learning outcomes: Cross-cutting theme



- Shift from access to learning outcomes at all levels from ECCE to HE
- Tool for measuring performance of education and training system
- Driver for lifelong learning and recognising formal, non-formal and informal learning
- Comparable data on learning outcomes (Learning Assessment Capacity Index) provides a snapshot of countries' readiness to produce the data needed to improve learning outcomes and monitor progress towards the Sustainable Development Goal on Education.



Source: Adapted from Marope, M., Chakroun, B. & Holmes, K (2015)





SHIFTS IN QUALIFICATIONS AND LEARNING PATHWAYS IN THE CONTEXT OF EDUCATION 2030

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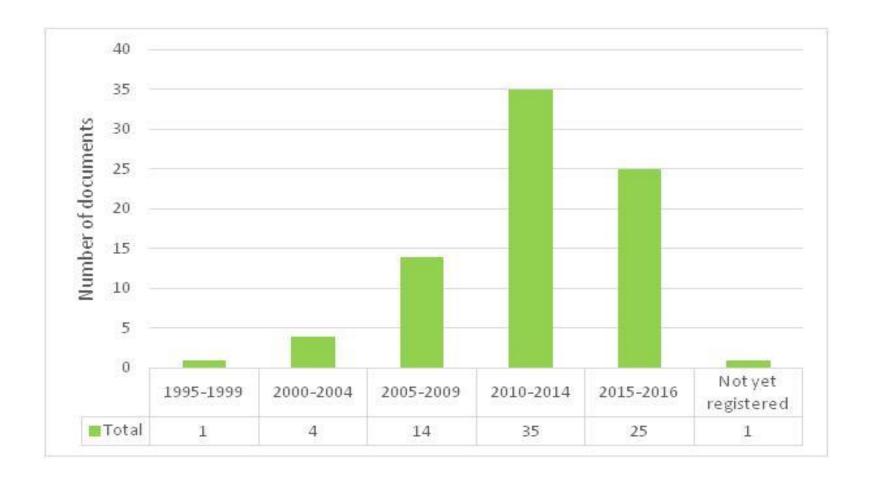
Six major challenges and trends



- I. Qualifications lifecycle
- II. Qualifications comparability
- III. Growing importance of skills as proxy
- IV. Attractiveness of vocational qualifications
- V. Impact of digitization of on qualifications
- VI. Qualifications in the context of the right to education and right to lifelong learning

Comparative analysis of qualifications (26 countries): Qualifications lifecycle

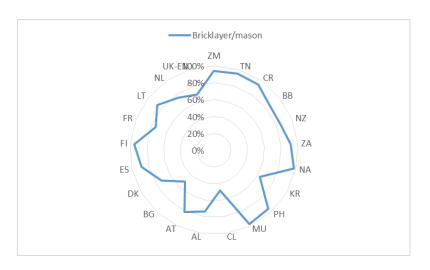


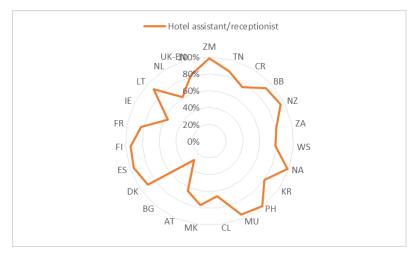


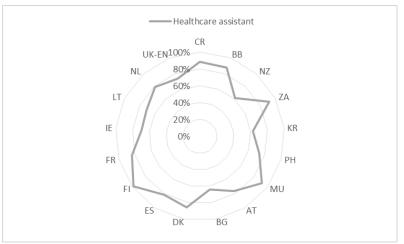


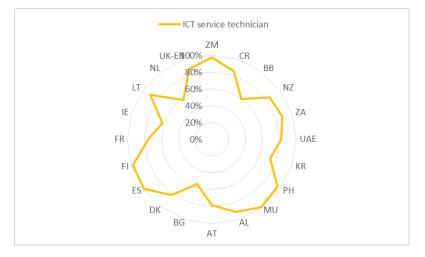


Same qualifications from different countries can differ quite considerably with regard the scope of the learning outcomes













ICT Technician – main similarities and differences; occupational skills and competences

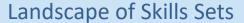
Present in all countries

Maintain ICT system
Perform ICT trouble
shooting
ICT network cable limitation
Administer ICT systems
Perform backups
Repair ICT systems
Use repair manuals
ICT communications protocols

Missing in more than 6-8 cases

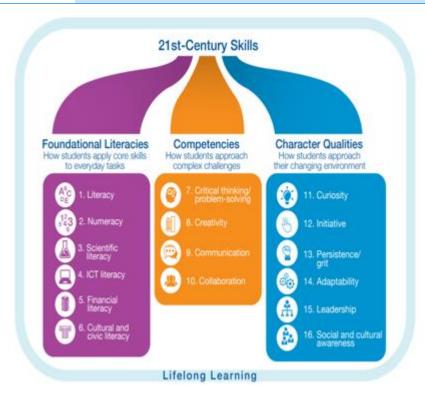
Procurement of ICT network equipment
Define firewall rules
ICT encrypton
Computer programming
ICT system programming
Service oriented modelling
Manage ICT system legacy implications
Operate private branch exchange

Source: J.Bjornavold & B.Chakroun, 2017

















Skills matter

Case 1:

According to a recent report from Georgetown's Center on Education and the Workforce, liberal arts graduates have an average unemployment rate (9.7%) that is 2.7% higher than the average rate for all graduates (7%).

According to Burning Glass by coupling liberal arts education with additional set of skills (Data analysis, graphic design, etc.), individuals can nearly double the jobs available to graduates, while also offering an average salary premium of \$6,000.

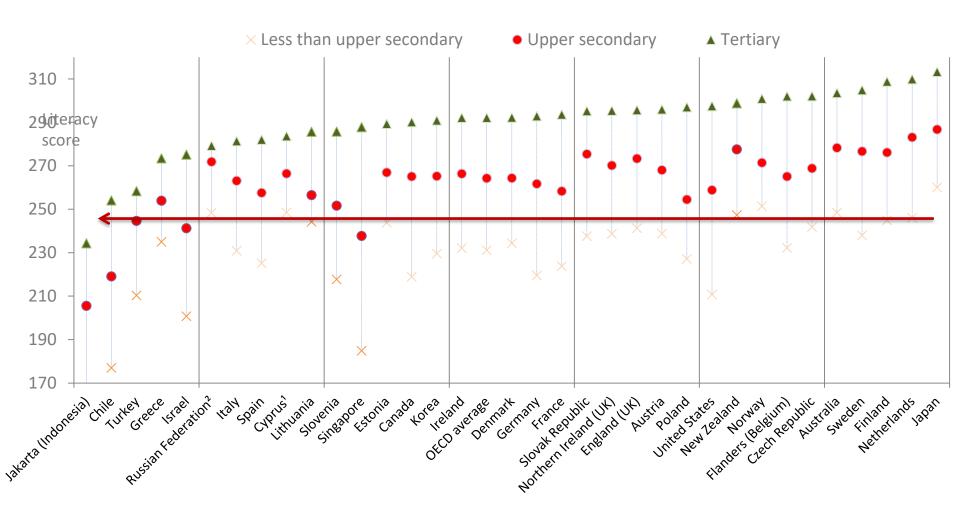
Case 2:

Analysis of the job markets in Denmark, France, Germany, Slovakia, South Africa, Spain, and Switzerland reveals that a one standard deviation increase in complex problem-solving skills is associated with a 10–20 percent higher wage.



Case 3: Literacy proficiency by level of educational qualification (25-65 year olds)





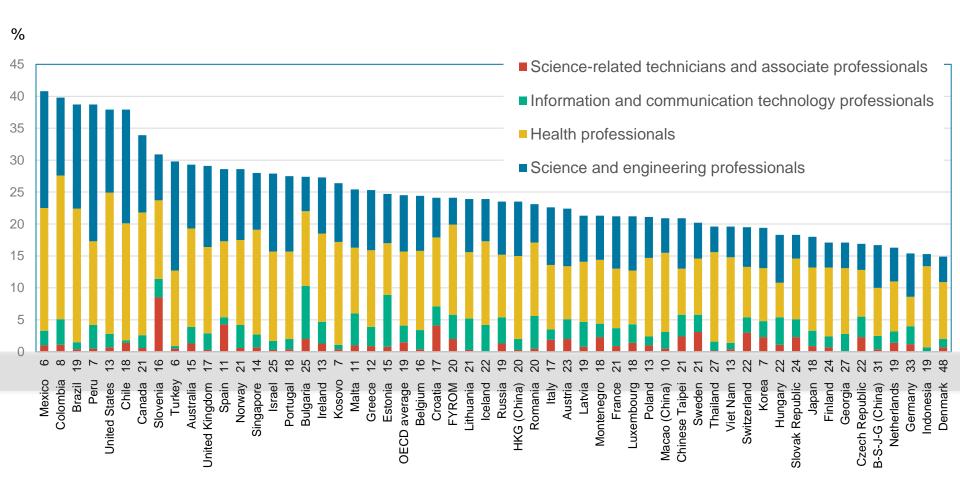
Source: OECD, 2016



Students' career expectations



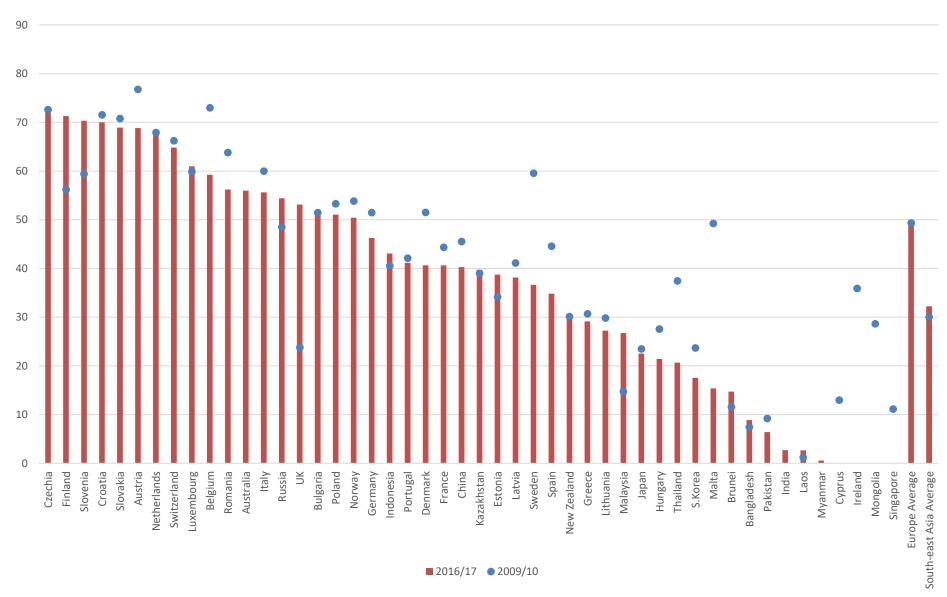
Percentage of students who expect to work in science-related professional and technical occupations when they are 30







Share of all students in upper secondary education enrolled in vocational programmes (%)



Labour market changes affecting qualifications





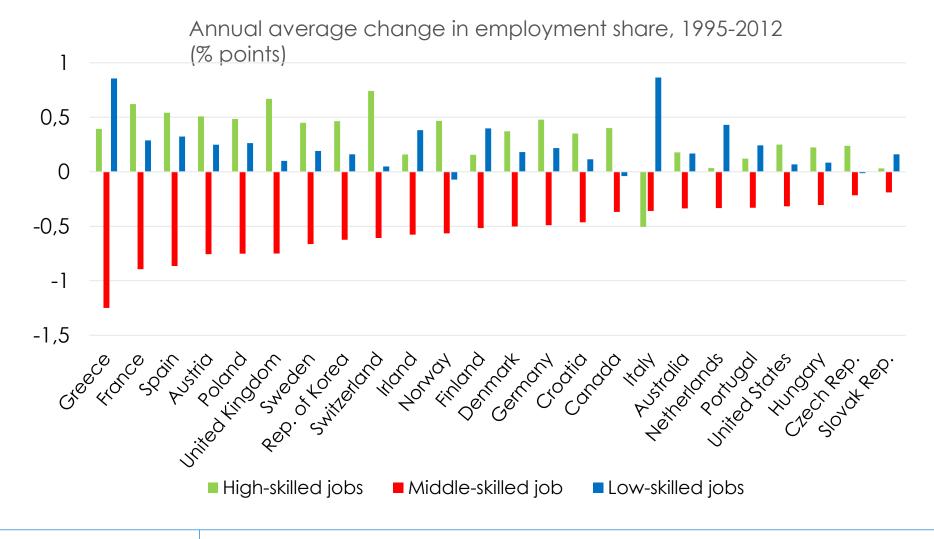


Polarisation of Labour Market and Risks of Automation



The labour market is becoming polarized in high income countries...

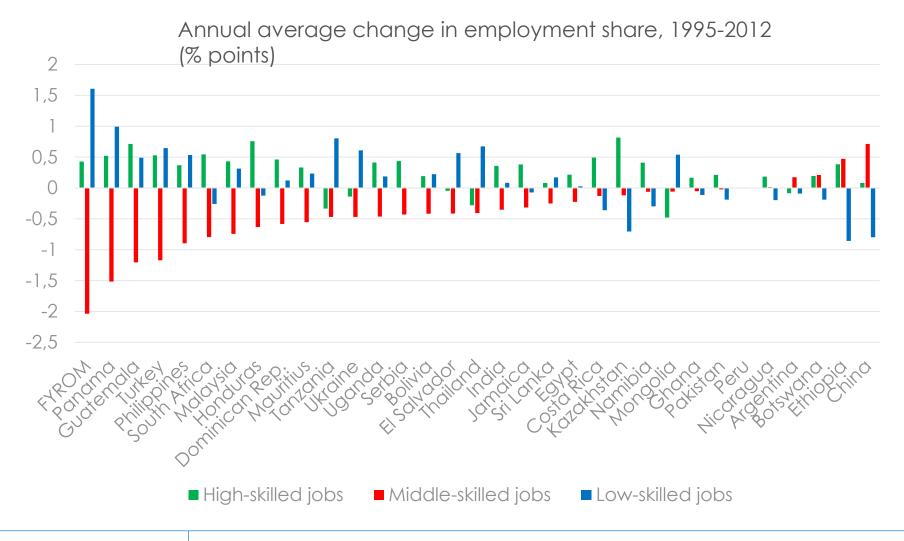






... and in low and middle income countries



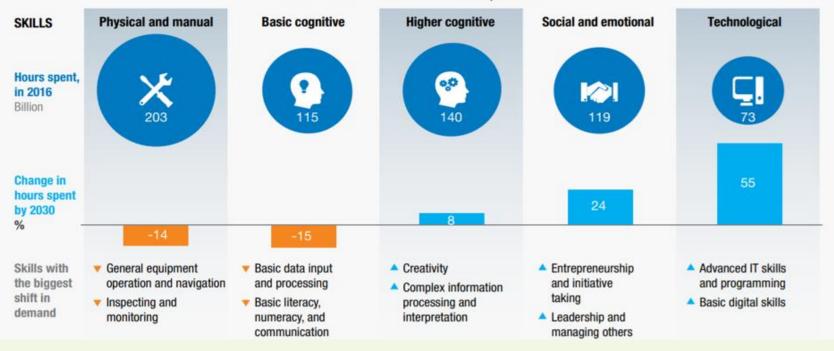






Automation and AI will change the skills needed in the workforce



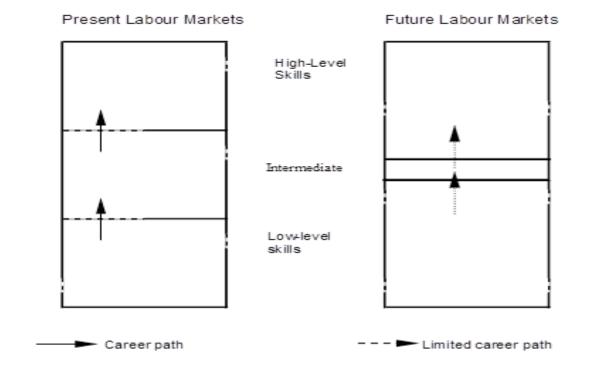


Source: McKinsey&Company, 2018



Implications for Lifelong Learning







Right to lifelong learning



1. Learning (Australia, France, Singapore);

2. Recognition of prior learning (Brazil, Norway and France);

3. Career guidance and counselling (France & Denmark); and

4. Other rights: Right to information/internet, social security, privacy, etc. (EU social right, GDPR, etc.)





LEARNING PATHWAYS: ARTICULATION OF TVET WITH HIGHER EDUCATION

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Global Inventory on NQFs











Findings

- Making NQFs work requires 4 fundamentals: proportionate legislation; sustained stakeholder bodies; specialised institutions; national quality assurance strategies.
- Most impact: move to outcomes in qualifications; transparency of systems
 of qualifications; Validation of non-formal learning; stakeholder engagement
 in qualifications.
- Less impact: visibility to learners and employers; pathways within national systems.







- **Pathway 1**: Entrants from initial TVET (ISCED 2–3). This transition is critical in removing the stigma of a deadend from the vocational track.
- Pathway 2: Entrants from short-cycle post-secondary TVET (ISCED 4-5) to higher education (ISCED 6-8).
- **Pathway 3:** Entrants from working life, including the informal economy.



Learning pathways: Context matters



Appropriate measures will depend on country circumstances e.g.

Level of education and training system fragmentation or complexity

Education system performance

Structure of labour market







Examples of specific measures:

- Support credit recognition
- Develop RPL systems
- Offer quality career guidance and counselling







Examples of specific measures:

 Embed general and transferable skills and knowledge into TVET programmes to support lifelong learning

 Provide optional bridging or access programmes to post-secondary education







Examples of specific measures:

- Widen participation in post-secondary education, including funding arrangements for TVET graduates
- Develop short-cycle post-secondary vocational programmes
- Meet the needs of adult students





Leveraging digital technologies for recognition of skills and qualifications







Open learning, MOOCs and Open Degrees;

Digital Badges;

Digital repositories;

Connecting learners records.



Technology can help addressing challenges



Learning outcomes and learners records

Qualifications Lifecycle

Career guidance and counselling

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Some emerging themes



How to verify somebody's achievements digitally?

Verification



What's in a digital credential and what does it look like?

Content



How to store a learner's qualifications for the long term?

Storage



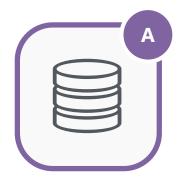
Exchang
e
How to exchange credentials
quickly, securely, and reliably?

Source: Andy Dowling, 2018

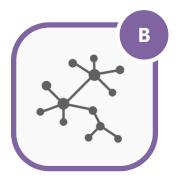




Some existing architectures



CENTRAL REPOSITORIES



EXCHANGE NETWORKS



HUB AND SPOKE



BADGING PLATFORMS



PUBLIC BLOCKCHAIN

Source: Andy Dowling, 2018



Global landscape: Real-time LM data





















Lone Star College's data-driven program review process





- 1. Competent personnel who have the latest labour-market information at their fingertips to steer learners
- 2. Qualifications that are coherent and easy to interpret





UNESCO's Work



UNESCO: setting the norms and standards



Normative instruments on TVET

Recommendation Concerning Technical and Vocational Education and Training (2015)

Normative instruments on HE

- Regional Conventions
- Work on Global Convention

Normative instruments on Right to Education

The Right to Education Recommendation

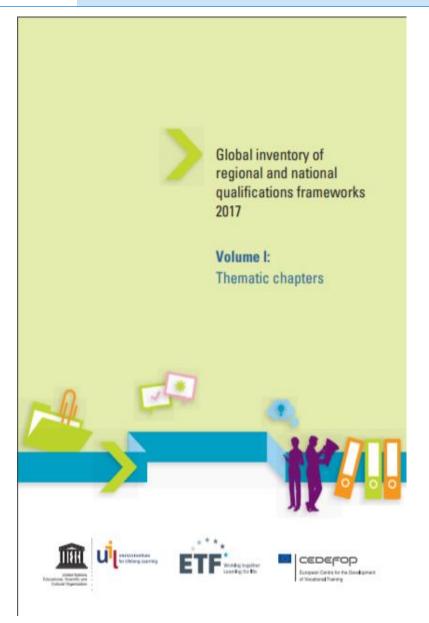
Guidelines

- UNESCO-OECD guidelines on quality assurance in HE
- UNESCO guidelines on quality assurance of certification
- UNESCO guidelines on qualifications frameworks

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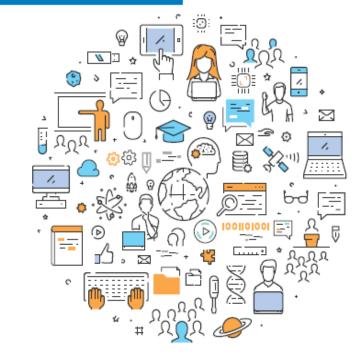






Digital Credentialing

Implications for the recognition of learning across borders







To translate any outcomes-based qualification, credential, entry requirements, job specification or framework level into an internationally recognised form of description which can be used in deciding on comparing qualifications or negotiating recognition or progression arrangements





Thank you

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