

Abilități pentru industrie: oportunități de training online pentru forța de muncă din Europa – o inițiativă a EASME/DG GROW, Comisia Europeană

DIGITAL COMPETENCES FOR OPEN EDUCATION WORKSHOP, 7TH EDITION 6 MARCH 2020

EBBA OSSIANNILSSON

PROFESSOR, DR.

EDEN EC, EDEN COUNCIL OF FELLOWS, ICDE EC, ICDE OERAC, V PRESIDENT SWEDISH ASSOCIATION FOR DISTANCE EDUCATION



Online Training

Promoting Opportunities for the Workforce in Europe

FINAL REPORT

Written by PwC June 2019



Skills for Industry: Curriculum Guidelines 4.0

25" November 2019 | Thon Hobel EU, Brussels

Skills for Industry Strategy PWC, EASME/DG Growth



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Written by PwC June 2019 In 2019, enterprises are facing great challenges related to digital transformation of the economy. In addition, regulatory and market requirements to meet the United Nations sustainability targets by 2030, demand a significant shift in the environmental footprints of enterprises and their business processes. These megatrends will have a considerable impact on skills and their implications for the workforce and the future of work. The changes driven by artificial intelligence, robotics and automation, as well as globalisation and key topics such as demographics, diversity, gender equality and social inclusion, necessitate better and greater training opportunities for all.

Moreover, these should be made accessible throughout the entire professional life. Upskilling and reskilling strategies will be crucial for competitiveness, growth and jobs. However, lifelong learning does not yet have clear delivery and funding models to ensure massive adoption.

Furthermore, there is still no agreement on how to provide lifelong learning for all. It should not be surprising: the question of funding for primary, secondary and higher education has been one of the thorniest political topics in the 20th century.

Creating the conditions for making lifelong learning and employability a reality will be a crucial topic in the 21st century. Achieving this goal will provide a competitive advantage in the global competition for talent and in the search for social cohesion

Project Manager PWC

Dr. Kristina Dervojeda, PwC (Netherlands)

- Specialises in policy research in the fields of skills and the future of education and work;
- Specific topics of interest: technology-enabled learning, lifelong learning, Industry 4.0, Artificial Intelligence and its implications for skills, new/alternative approaches to education & training in the new industrial age etc.;
- Leads PwC Innovation Research Centre (IRC);
- Has been managing and supporting various multi-country assignments for the European Commission in a role of Project Manager and Senior Expert.

LinkedIn profile: <u>https://www.linkedin.com/in/kristina-dervojeda-9019571/</u>

Email address: <u>kristina.dervojeda@pwc.com</u>



Background and objectives

- ... to identify effective approaches to stimulate the use of online training solutions
 - by European companies, especially small businesses, in order to efficiently upskills/reskill the EU workforce.
- Included performing extensive desk-research, conducting 60 in-depth interviews, 2 pan-European online surveys, organising 6 pan-European expert workshops and the final conference in Brussels.
- Key outcomes: state-of-play analysis and vision
 - The vision aims to include:
 - specific measures, roles and priorities at the EU and national levels for the implementation in **the period of 2021-2027 and beyond**.



Contracting authority: EASME/ DG GROW of the European Commission

Contract Nr. EASME/COSME/2017/001

Contractor: PwC EU Services (together with EDEN and Espace Mendes France)

Duration: 2 years (September 2017 – October 2019)

WHY JUST NOW?

"It's not about technology, it's about people."

- Artificial Intelligence, automation, robotics etc.
- Migration, ethical diversity, gender equality and other social inclusion issues
- Regulatory and market requirements to meet sustainability targets etc.
 - Need for (new) effective approaches to develop, maintain and advance required skills
 - Considerable impact on skills requirements
 - Upskilling and reskilling are crucial for survival, let alone success
 - Need for a new mind-set: just-in-time just-for-me solutions



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Defining Online Training

Online training here is defined as training that is delivered, enabled or mediated using digital technology, for the explicit purpose of learning in organisations.

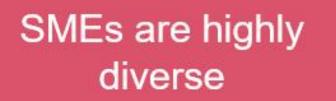
Online training refers to a wide range of digital learning solutions related to bespoke and off-the-shelf e-learning, including Massive Open Online Courses (MOOCs), Open Educational Resources (OER), video content, mobile learning (mlearning), and more recently Virtual/Augmented reality, gamification, Artificial Intelligence (AI) solutions etc. Shifting from digital learning towards learning in a digital world



4 June 2019

Key questions

- What exactly needs to be done and by whom to stimulate the uptake of online training by SMEs in Europe?
- How should the **funding** of online training-related initiatives for the workforce be organised?
- How can online training best complement other (more traditional) forms of training?
- What are the most promising ways of reaching out to the workforce (particularly within SMEs), to engage them into online training?







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Key barriers for online training adoption

- Lack of overall culture of learning
- Lack of company's learning strategy
- Lack of knowledge of employers about the opportunities offered by online training
- Lack of knowledge of employees about the opportunities offered by online training
- Lack of commitment from management
- Lack of good quality courses relevant to company needs
- Lack of motivation of employees to use online training
- Insufficient technical infrastructure
- Reluctance of employees to use technologies for training
- High development costs for bespoke learning



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Key Outcomes 1

- Market drivers, trends and dynamics
- Availability, quality and affordability of online training for SMEs
- Adoption rate of online training among SMEs in different EU Member States
- Key players and cooperation mechanisms
- Relevant policy initiatives

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Key Outcomes 2

- Key adaptation and localisation strategies
- Key scientific, policy and business publications
- Development costs and funding models
- Latest innovations in pedagogies
- Main conditions to be fulfilled for a massive takeup of online training by SMEs
- Vision and top priority measures; overall recommendations



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Written by PwC June 2019 A need for a shift from supply-oriented towards **demand-oriented** initiatives



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Different Approaches

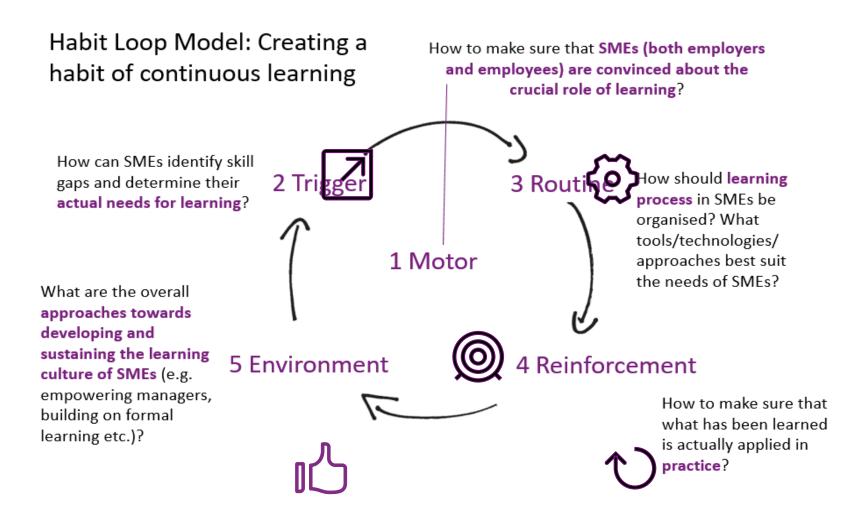
Visionary leadership

Learners in hte driving seat

Carrot and sticks approach

External push for learners

Changing SME learning habits



Applying a holistic approach:

Treating **learning as a process** rather than separate events



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Based on Habit Loop Model by CUTESolutions



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Cultivate diversity

There is no one best way to tackle the challenges

There is a need to respect the differences and to cultivate diversity

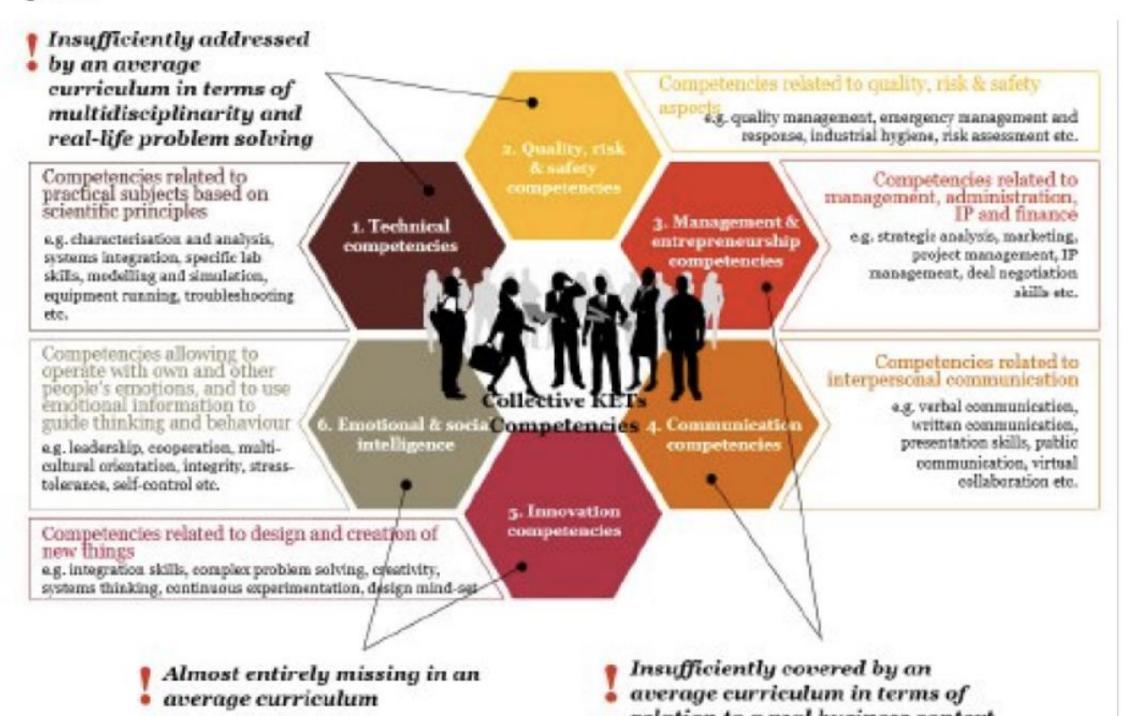
A common vision needs to follow a multi-dimensional approach



Future-proof education and training for manufacturing in Europe - Study Publication metadata

The main challenges are related to the exponential growth of digital tools that include robots, cobots, connected objects, communication systems, data centers and associated energy consumption.

The industrial environment must find new technologies, new designs, new architectures, new communication and data storage concepts, in order to increase the performances of the digital world and, at the same time, to minimise the related energy consumption



Curriculum Guidelines 4.0

- # Strategy
- # Collaboration
- # Content
- # Learning environment
- # Delivery mecahnisms
- # Assessments
- # Recognition
- # Quality



CARING IS SHARING, SHARING IS CARING



My Footprints







Ossiannilsson QOOL (quality in open online learning) Consultancy

E-learning, blended learning, open, online learning, OERs, MOOCs and TEL specialist with focus on quality



Vice President, The Swedish Association for Distance Education Vice President, The Swedish Association for e-Competence EDEN Fellow, EDEN NAP, EDEN EC Open Education Europa Fellow and Ambassador EADTU, Quality Reviewer, E-xcellence, OpenupEd ICDE, Quality Network ICDE OER Advocacy Committee

ebbaossiannilsson
S Ebba.Ossiannilsson
@EbbaOssian
@EbbaOssian
EbbaOssiannilsson
wation for
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