

Skills for the green transition – realising VET's potential

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Farming's got talent! Vocational education and training for agriculture in transition – DG AGRI

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Cedefop looks into labour markets' changing skill needs and the development of vocational education and training policies across the EU Member States





European Centre for the Devel of Vocational Training

Supporting the green transition: Cedefop's approach

- Cedefop explores environmental policies for over a decade:

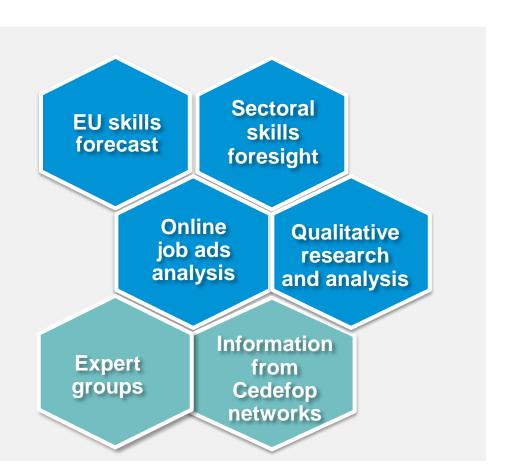
 e.g.
 2019 Skills for green jobs;
 2015 Green skills and innovation for inclusive growth;
 2013 Skills for a low-carbon
 Europe
- Focus on EGD implications on jobs, skills and VET since 2020
- New paradigm for economic and social activities

- Impact on all sectors, occupations, learners
- implications for all VET-relevant policies and activities (design, provision, validation, guidance, adult learning, apprenticeship etc.)



Using skills intelligence to build up Cedefop Green Observatory (Cedefop GO)





- Identify long-term trends in EU, sectors, occupations and skill-levels

 The green employment and skills transformation
 - Insights from a European Green Deal skills
 forecast scenario
- Developments and trends in key sectors

 Skills foresight exercises on smart and green cities, waste management, agri-food, circular economy,
- Identify skills trends through OJAs
 - Green occupations and skills for green transition
 - Taxonomy of 'green' occupations



The green employment and skills transformation sectoral shifts

- EGD to offer about 2.5 million
 additional jobs in the EU by 2030
- Employment benefits for most sectors,
 but some will be negatively affected
- Indirect employment benefits mainly for service-based sectors (e.g. inf. & communication, real estate)

- Up-/reskilling for all workers
- VET for workers' transitions in 'brown' sectors (e.g. coal mining)
- IVET to prepare future workers for green(er) jobs

TRANSITIONS

numbers in thousands

Water supply & waste management	961
Construction	487
Wholesale & retail trade	193
Administrative & support services	153
Electricity	142
Basic metals & metal products	97
Health	94
Accommodation & catering	80
Legal, accounting & consulting	79
Architecture & engineering	74
Computer programming/info services	s 65

Forecast employment impact of the EGD (difference between EGD skills forecast scenario and baseline in 000s) in selected sectors, EU-27



Coke & refined petroleum	168
Gas, steam & air conditioning	60
Mining & quarrying	58



Mapping trends to uncover up & reskilling potential





- Employment benefits at all skill levels countering job polarisation
- Digital transformation
 as green transition
 driver: twin skills
 demand transition
- Possible recruitment bottlenecks

Highly skilled non-manual ■ Skilled non-manual ■ Skilled manual ■ Elementary

All occupations

more sustainable practices and attitudes

Key occupations (e.g. EV technicians, SP installers)

"Thyroid" occupations (e.g. hydrogen researcher)



PROVISION OF PROFESSIONAL DEVELOPMENT

THREE MAIN AREAS COVERED:

EARLY LEAVING FROM VET

- Focus on VET teachers' role in tackling early leaving and supporting learners at risk with development of related teacher training component
- Projects and initiatives
 addressing inclusiveness
 and supporting learners at
 risk with focus on:
 guidance/counselling, teacher
 training, young people with
 disabilities/SEN, refugees and
 migrants, second chance
 measures, mental health
 support

DIGITAL SKILLS AND BLENDED TEACHING AND LEARNING

- Technical part: tools and resources (SELFIE tool for VET and for work-based learning)
- Theoretical part: framework, strategies, guidelines (DigComp 2.2)
- Support measures: research, funding, networks, professional development programmes for teachers, workshops, adaptation of VET programmes

MORE FOCUSES:

- Psychosocial support
- Reintegration of NEETs
- Community involvement

GREEN SKILLS AND SUSTAINABILITY

- Adaptation of VET programmes and curricula to include green skills
- Creation of specific VET schools which focus on UN's sustainable development goals (SDGs)
- Cooperation between VET schools and ecological education centres and other NGOs
- New professional development programmes targeting teachers' competences to teach green skills and train them to support in-company trainers' green skills development







GREEN SKILLS INITIATIVES

AREAS OF INITIATIVES		COUNTRY EXAMPLES	NUMBER OF COUNTRIES
Projects		Greenovet - Skills for a green Europe. More than 100 teachers are trained to provide excellence in teaching environment-related professional and key competences (AT, FI, PT)	12
VET programmes and qualifications		Adaptation of diplomas and qualifications to the challenges of green transition (FR)	9
Teachers' professional development	t	Courses on sustainable development, green skills, environmental education, climate protection (CY, HU, LU, LV, PL)	7
Tools		Website to help VET teachers in their work with sustainability in the classroom (SE)	5
Education plans		Environmental education action plan (ES)	5
Institutes, networks and cooperation	ns	Network of Environmental Education Centers (CY)	3

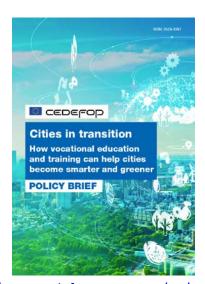
Skills and jobs driving the green transition

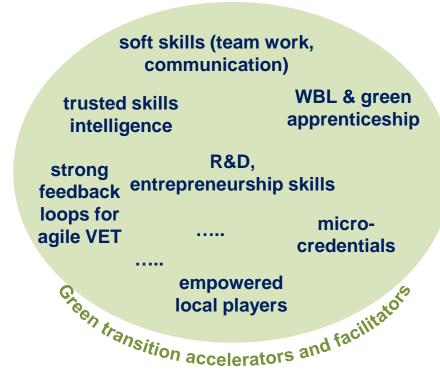


in cities, waste management, circular economy & agri-food

Smart/green city occupations

green/smart city manager
ICT professional
urban space specialist
energy professional
transport and mobility specialist
environmental protection specialist
citizen engagement specialist
construction professional







Waste management occupations

logistic manager, data analyst
(strategic) waste manager
waste valorisation professional
quality assurance manager
energy expert
te sorting optimisation professional

waste sorting optimisation professional circular economy plant designer technical engineer (recyclable products) material extraction/recycling/reuse expert waste management trainer repair specialist

Cedefop skills foresight exercise: agri-food Key messages

Future skills

- **→** R&D
 - entrepreneurial
- digitaltechnical
- soft
 - transversal

Important role of VET

- young workers about to enter the labour market
- up- and reskilling of adults
- Adjust provision to agriculture and food sector needs

To dos

- become more attractive to the young
- stakeholder collaboration
- reflect local or regional needs

Looking ahead

Cedefop's future work on the green transition



APPRENTICESHIP AND THE GREEN TRANSITION

 Cedefop Community of apprenticeship experts



DEVELOPMENTS IN SECTORS, OCCUPATIONS, SKILLS

- Qualitative work and analyses on sectors and occupations
- Sectoral skills foresights
- Understanding skills for the green transition (Skills OVATE)



STATE OF PLAY/GOOD
PRACTICES IN MEMBER STATES

Understand developments in:

 VET (policies, curricula, programmes, modes of delivery, etc.) by shaping new 'green' skills anticipation methods



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