ERASMUS+ EL CAMINO DE LA FORMACIÓN PROFESIONAL HACIA UNA EUROPA MÁS SOSTENIBLE



La sostenibilidad medioambiental como dimensión europea

Santiago de Compostela, ESPAÑA 9 de julio de 2024













AGENDA

- 1. Why the need for Environmental sustainability
- 2. The UN Sustainable development goals
- 3. EU policy agenda on environmental sustainability
- 4. Green transition impact on jobs and skills
- 5. What are green skills and why do we need them
- 6. EU policy and funding for Green skills
- 7. The contribution of the Erasmus+ programme
- 8. The role of VET institutions
- 9. Creating Capacity in the VET Sector
- 10. Guidance and support resources for VET institutions
- 11. Best practices in VET
- 12. Conclusions

INTRODUCTION

Environmental Sustainability & Climate Change:

Among the greatest challenges of the 21st century.

Impacts include rising sea levels, extreme weather, droughts, and biodiversity loss.

Global Effort Required:

Involves governments, businesses, civil society, and individuals.

Education and training, especially VET, is crucial for developing the necessary knowledge, skills and attitudes.







ENVIRONMENTAL SUSTAINABILITY

Environmental sustainability aims at:

Meeting present needs without compromising future generations

Climate Change

Addressing the devastating impacts of climate change is crucial for the well-being of our planet and its inhabitants.

Resource Depletion

Unsustainable practices are contributing to environmental degradation and the depletion of natural resources.

Biodiversity Loss

Preserving biodiversity is essential for maintaining the delicate balance of ecosystems.



THE UNITED NATIONS SUSTAINABLE DEVELOPMENT GOALS

Comprehensive Framework:

Adopted in 2015 to achieve a sustainable future by 2030

Relevant SDGs:

SDG 7: Sustainable energy for all.

SDG 11: Sustainable cities.

SDG 12: Sustainable consumption.

SDG 13: Climate action.

SDG 14: Life below water.

SDG 15: Life on land.

Holistic Approach:

Recognizes the interconnections between environmental, economic, and social dimensions.

Collective Effort:

Involves governments, businesses, civil society, and individuals to develop relevant skills and capacities.



https://www.cedefop.europa.eu/files/3069_en.pdf

EU POLICY AGENDA ON ENVIRONMENTAL SUSTAINABILITY

The European Green Deal:

- Roadmap for sustainable EU economy.
- A growth strategy for EU with climate and environmental challenges as opportunities.





Key Objectives:

Climate neutrality by 2050, decoupling economic growth from resource use, transitioning to a circular economy, protecting biodiversity, sustainable agriculture, ensuring a just transition





Ambitious Targets:

Reducing greenhouse gas emissions, increasing renewable energy share, improving energy efficiency

Supportive Measures:

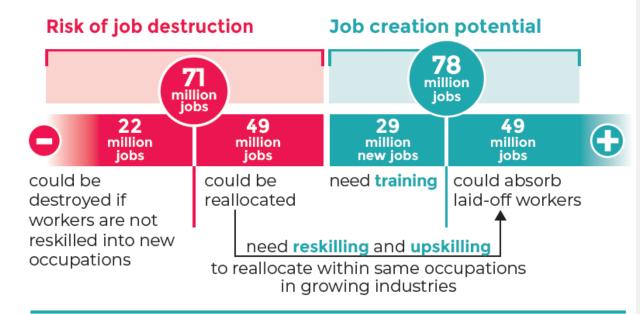
Legislative measures and funding programs to support a sustainable and climate-resilient future

ILO - CIRCULAR ECONOMY SCENARIO, 2030 (JOBS IN MILLIONS)

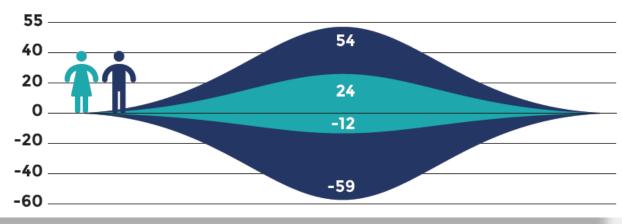
Job growth by occupations

- 15.6 Sales workers
- 10.4 Metal, machinery and related trades workers
- 4.3 Science and engineering associate professionals
- 3.7 Drivers and mobile plant operators
- 3.3 Electrical and electronic trades workers
- 3.2 Labourers in mining, construction, manufacturing and transport
- 2.9 Stationary plant and machine operators
- 2.8 Business and administration associate professionals
- 2.7 Building and related trades workers, excluding electricians
- 2.7 Science and engineering professionals
- 2.0 Refuse workers and other elementary workers
- 1.9 General and keyboard clerks
- 1.8 Market-oriented skilled agricultural workers
- 1.7 Food-processing, wood-working, garment and other crafts
- 1.7 Business and administration professionals
- 1.6 Numerical and material recording clerks
- 1.4 Administrative and commercial managers
- 1.4 Handicraft and printing workers
- 1.3 Protective services workers
- 1.2 Cleaners and helpers

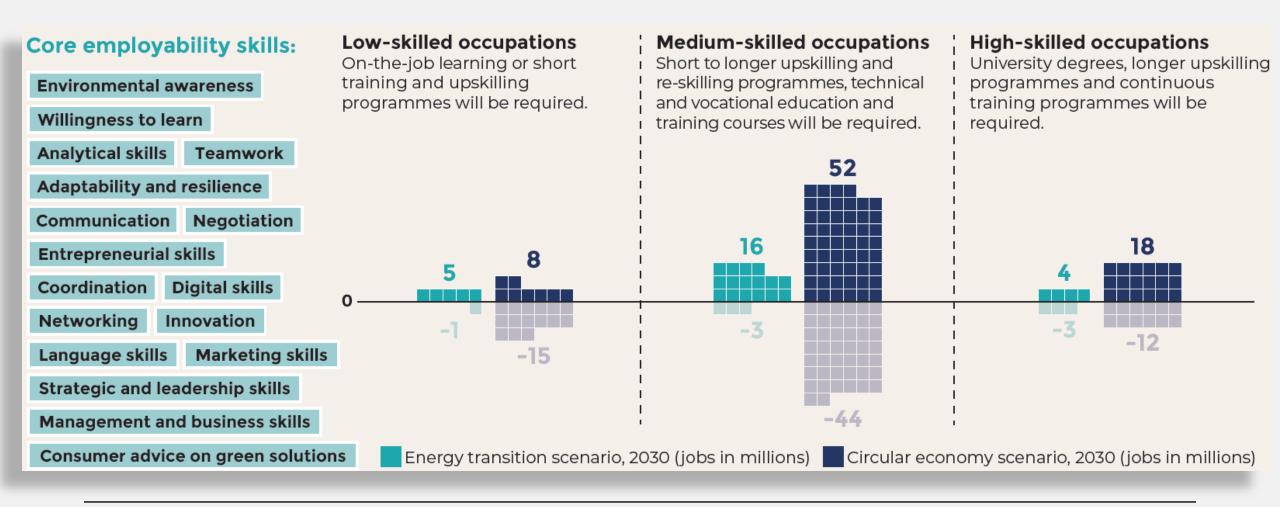
Potential job growth

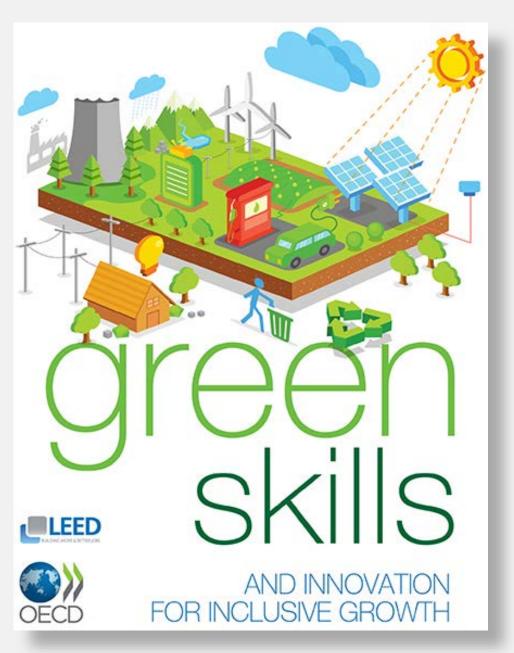


Job change by gender



ILO - RESKILLING & UPSKILLING MEASURES WILL BE REQUIRED AT ALL SKILL LEVELS





GREEN SKILLS

What are Green Skills:

Knowledge, abilities, values, and attitudes for a sustainable and resource-efficient society.

Contribution to Sustainable Future:

Promotes sustainable practices, reduces environmental footprint, and supports green economy.

Essential for Adaptation & Mitigation:

Helps individuals, communities, and businesses to adapt and mitigate climate change effects.

Range of Competencies:

Includes technical, analytical, communication, critical thinking, and entrepreneurial skills.

EU POLICY SUPPORTING THE DEVELOPMENT OF GREEN SKILLS

European Skills Agenda:

Ensuring people have the right skills for the green and digital transitions

Includes:

GreenComp the European sustainability competence framework, **ESCO taxonomy** for green skills and knowledge concepts.





European Education Area:

Encouraging action for the green transition and to strengthen the sustainability competences of all learners

Includes:

Education for Climate Coalition - Community of learners & teachers **Learning for the green transition** - Education and training policies **Working Group** on VET and the Green Transition

EU FUNDS SUPPORTING THE DEVELOPMENT OF GREEN SKILLS

European Social Fund Plus (ESF+): Supports employment, education, and social inclusion projects, including green skills development





Erasmus+ Program: Promotes sustainable development through education, training, and cooperation projects

Just Transition Fund: Supports acquisition of new skills for the green economy, and education facilities and programs for sustainable technologies





Horizon Europe: Includes support for developing skills in green technologies and practices

LIFE Program: Supports environmental and climate action projects, including capacity building and green skills development



THE CONTRIBUTION OF THE ERASMUS+ PROGRAMME

Mobility Opportunities: Learners and staff gain knowledge and skills related to sustainability, such as renewable energy and natural resource management.

Cooperation Projects: Promote sustainable practices in education, such as green curricula and eco-friendly infrastructure.

Strategic Partnerships: Foster collaboration and knowledge exchange between educational institutions and businesses.





Awareness-Raising Activities: Promote environmental education and sustainable lifestyles.

Encouraging Sustainable Transport: Promote eco-friendly attitudes and sustainable means of transportation during mobility experiences.

THE CONTRIBUTION OF THE ERASMUS+ PROGRAMME

H2Excellence Fuel cells and clean hydrogen

SECOVE Sustainable Energy Centres Of Vocational Excellence

SEED Sustainable Energy Education: Sustainable energy

T-SHORE Offshore renewable energy

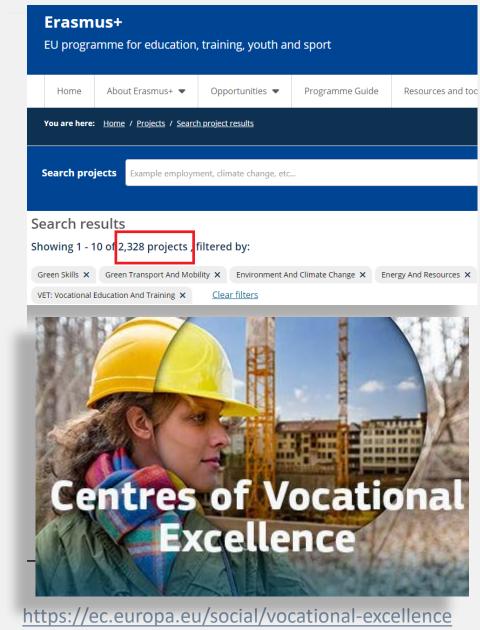
EPLUG European Platform for Urban Greening

GREENOVET VET Excellence Platform for Green Innovation

TEAM#UP Knowledge on ecological restoration

POVE WATER Platform of Vocational Excellence Water

BRIDGES Blue Region Initiatives for Developing Growth, Employability and Skills in the farming of finfish



THE ROLE OF VET INSTITUTIONS



Addressing Global Challenges

VET plays a crucial role in equipping learners with the skills and knowledge needed to tackle pressing environmental issues and promote sustainable practices across industries



Preparing for a Green Economy

As the demand for green jobs and sustainable technologies grows, **VET must adapt** to provide training that aligns with the **evolving needs** of the labor market



Fostering Responsible Citizenship

By embedding sustainability principles into VET curricula, educators can cultivate a sense of environmental leadership and empower learners to become agents of positive change

CREATING CAPACITY IN THE VET SECTOR

Develop strategic plans: Formulate and implement strategic plans prioritizing sustainability

Policy alignment: Align institutional policies with regional, national, EU and global sustainability goals

Build partnerships: Collaborate with businesses, industry associations, Communities, Universities, local and regional authorities, employment services





Skill needs assessments: Identify gaps in green skills. Align training with market needs

Innovative curricula: Integrate environmental sustainability and green skills into training programs across qualifications

Innovative teaching and learning: Use digital and advanced teaching and learning technologies, interdisciplinary approach, project-based learning, hands-on experiences

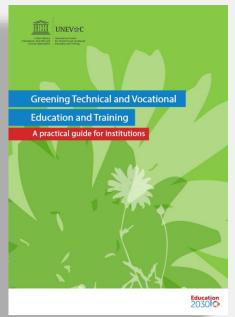
Professional development of teachers and trainers: Enhance knowledge and skills in sustainability and green technologies

Sustainable campus management: Implement energy efficiency, waste reduction, and renewable energy initiatives

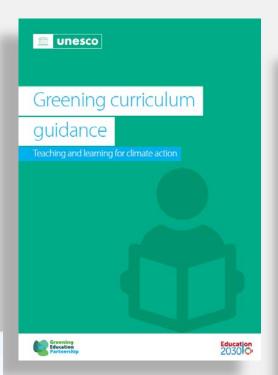
Continuous improvement: Conduct regular evaluations for program effectiveness

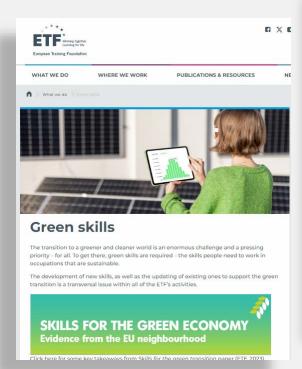


GUIDANCE AND SUPPORT RESOURCES FOR VET INSTITUTIONS











Cedefop Green Observatory (Cedefop GO) includes Cedefop's work on the implications of the green transition on jobs and skills across sectors and occupations in the EU. To make the transition happen, young learners, workers and all citizens need to be equipped with green transition skills, knowledge and understanding. Vocational education and training (VET) has a crucial role to play in supporting transitions in the short-term, as well as in reaching a new sustainability paradigm in the longer run.

Learn more about Cedefop's work on Skills and jobs for the green transition and the potential role of apprenticeships. Stay tuned for more insights!



Skills for a Greener Future: A global

Skills for Green Jobs:

Greening TVET and skills

development: A practical

A global view

guidance tool



Anticipating skill needs for green jobs: A practical

Just Transition Policy Brief:

Skills development for a

just transition



Skills and Occupation No in Renewable Energy Skills and Occupation Need in Green Building



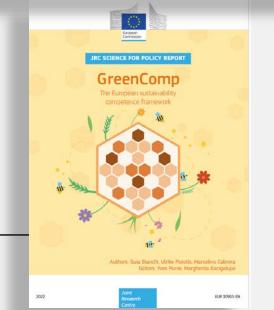
carbon economy For more information:

Comparative analysis of methods of identification of skills needs on the labour market in transition to the low

skills@ilo.org

ILO SKILLS - https://www.ilo.org/skills

Global KSP https://www.skillsforemployment.org/skpEng



BEST PRACTICES IN VET

Germany - National Green Competence Standard: Nationwide update of environmental and sustainability standards for all trainees in the dual system

Finland - Holistic Strategy: National program integrating sustainability across VET management and teaching



Spain - Renewable Present Project (Castilla-La Mancha): Greening VET through ISO 14001 implementation and innovative projects in hydrogen and IoT technologies

Spain - Green Entrepreneurial Schools (Bilbao): Integration of sustainable entrepreneurship into curriculum through circular economy projects

Spain - Clean Energy Training (Castilla-La Mancha): Annual teacher training courses on clean energy and energy saving conducted by energy company trainers

Spain - Sustainable fashion brand (Catalunya): project aims to show how the polluting character of the fashion industry could be reduced through technology

CONCLUSIONS

Critical Challenges:

Environmental sustainability and climate change need concerted efforts

Critical Role of VET Institutions:

Developing green skills and competencies for a green economy

Integrating Sustainability:

Promote sustainable practices through curricula and campus management

International Cooperation:

Enhance knowledge exchange and capacity building through programs like Erasmus+

Partnerships and Community Engagement:

Foster collaboration and promote sustainable lifestyles

Coordinated Effort:

Collaboration among VET institutions, businesses, policymakers, community

Prioritize green skills for a sustainable future



"THE WAY TO GET STARTED IS TO QUIT TALKING AND BEGIN DOING"

Walt Disney"

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