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BIO-Save

Competence Catalogue

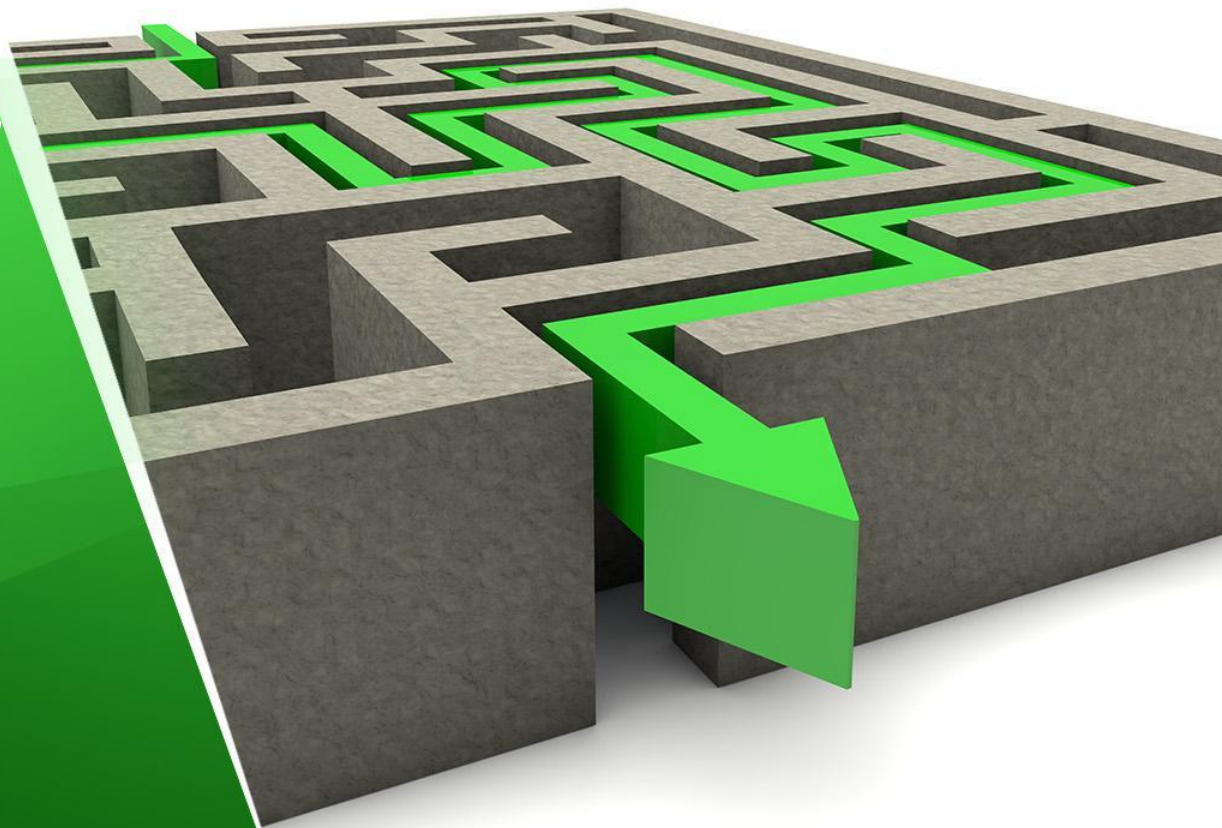
Part II

career profiles

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***BIO-Save career
profiles
in
Environmental
Science and
Protection***





Qualification Dossier of

-
 - Owner's Name



General information about the owner of the dossier

- Full name:

.....

- Area of specialization:

-

.....

- **(Selected from BIO-Save project qualification list)**



Contact information

mail address

telephone

email address.....



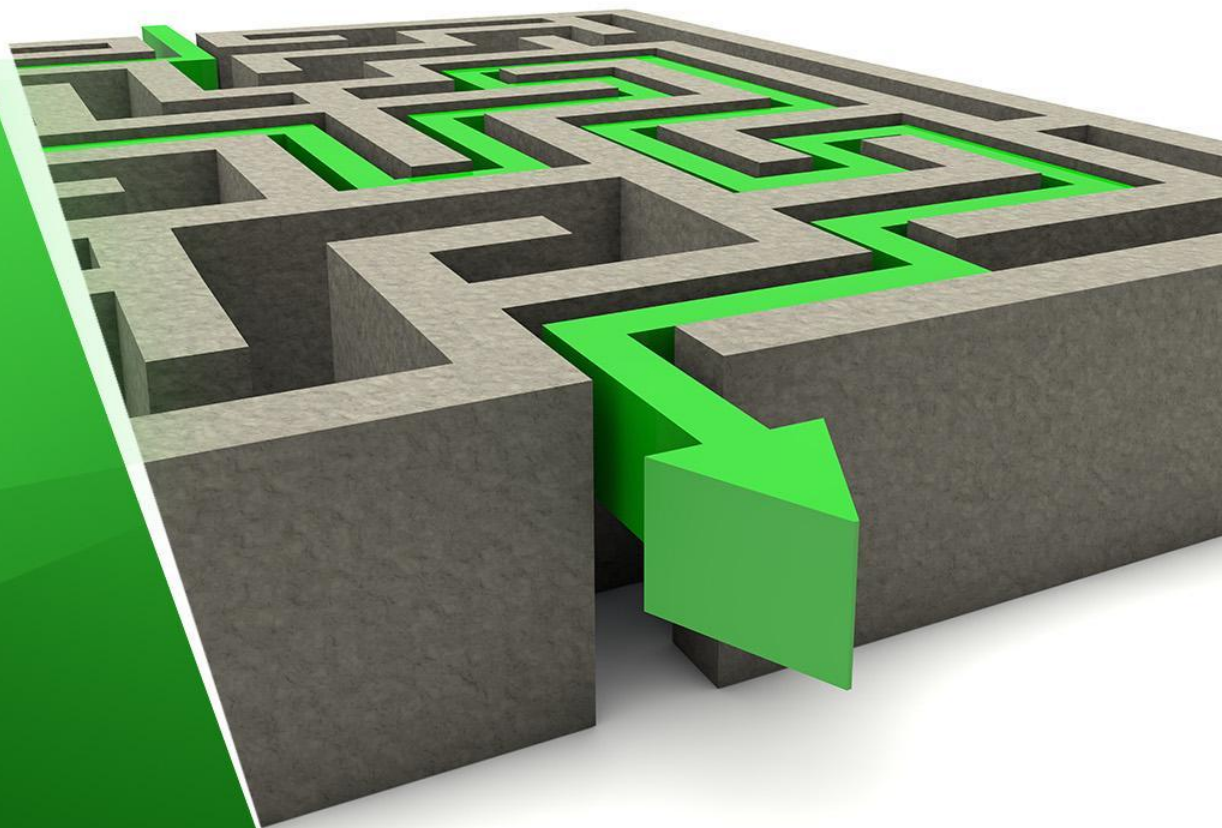
Professional CV EUROPASS

http://europass.cedefop.europa.eu/sites/default/files/cvtemplate_6.doc

Follow the instructions provided in the form above to provide information about your education completed, and work experience

BIO-Save
career profiles
In
***Environmental
Science and
Protection***

For level EQF 6



BIO-Save Professional profiles

Environmental Science and Protection

EQF 6

Knowledge

Advanced knowledge of a field of work or study, involving a critical understanding of theories and principles

Skills

Advanced skills, demonstrating mastery and innovation, required to solve complex and unpredictable problems in a specialised field of work or study

Responsibility and autonomy

Manage complex technical or professional activities or projects, taking responsibility for decision-making in unpredictable work or study contexts; take responsibility for managing professional development of individuals and groups



EQF 6

B.Sc. Degree Professional

Professional Profile for:	Ecologist - ESCO 2133.5
General abilities (knowledge & skills)	<ul style="list-style-type: none"><input type="checkbox"/> Determine methods for data collection envisaged for investigations, research, and surveys<input type="checkbox"/> Collect and accumulate environmental data from samples of air, soil, water, food, and other materials for research analyses<input type="checkbox"/> Analyze samples, surveys data, and other information to identify and evaluate environmental threats<input type="checkbox"/> Assess polluted sites and determine the activities and resources necessary for cleaning up and restoration purposes<input type="checkbox"/> Reclaim lands and waters that have been contaminated by pollution<input type="checkbox"/> Develop plans for prevention, monitoring, or solving environmental problems related to land, water, or air pollution<input type="checkbox"/> Provide information and instructions to government officials, businesses, and the general public on possible environmental hazards and health risks<input type="checkbox"/> Prepare technical reports and presentations that explain their research and findings
Green abilities (knowledge & skills)	<ul style="list-style-type: none"><input type="checkbox"/> Study effects on ecosystems caused by the changing climate.<input type="checkbox"/> Monitor, manage and protect natural resources including land and water supplies<input type="checkbox"/> Master environmental justice skills to rise legal, social and historical environmental awareness
Digital abilities (knowledge & skills)	<ul style="list-style-type: none"><input type="checkbox"/> Utilize efficiently Office suit software<input type="checkbox"/> Operate with Internet browser software<input type="checkbox"/> Uses frequently electronic mail software<input type="checkbox"/> Use Information retrieval or search software<input type="checkbox"/> Operate with presentation software<input type="checkbox"/> Practice spreadsheet software and word processing software

EQF 6

Project manager

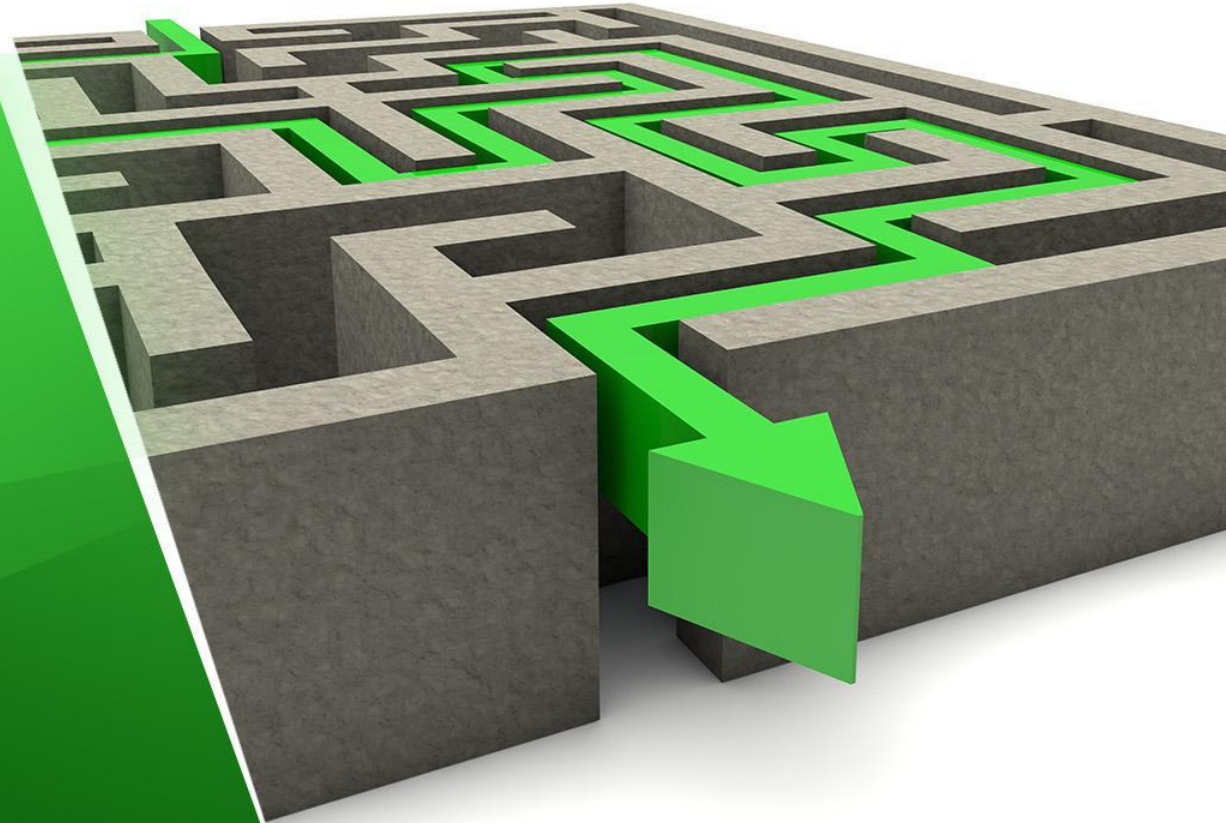
<i>Professional Profile for:</i>	Research and development managers - ESCO 1223.2
General abilities (knowledge & skills)	<ul style="list-style-type: none"> <input type="checkbox"/> Schedule and coordinate work and activities of environmental professionals <input type="checkbox"/> Get, analyze, document, and record data or information on environmental issues <input type="checkbox"/> Evaluate information to determine compliance with environmental standards <input type="checkbox"/> Keep up-to-date technically and apply new knowledge on management approaches of environmental issues <input type="checkbox"/> Provide guidance and expert advice to management of technical, systems-, or process-related environmental topics <input type="checkbox"/> Understand and apply quality assurance, quality control, and regulatory practices <input type="checkbox"/> Encourage environmental professionals to adopt innovations
Green abilities (knowledge & skills)	<ul style="list-style-type: none"> <input type="checkbox"/> Implement good environmental practices into management plans <input type="checkbox"/> Introduce green technologies in project management to increase environmental protection <input type="checkbox"/> Implement the national and international policies and regulations for sustainable management
Digital abilities (knowledge & skills)	<ul style="list-style-type: none"> <input type="checkbox"/> Operate calendar and scheduling software <input type="checkbox"/> Use staff scheduling software <input type="checkbox"/> Practice desktop communication software <input type="checkbox"/> Use frequently electronic mail software <input type="checkbox"/> Use information retrieval or search software <input type="checkbox"/> Practice spreadsheet software and word processing software

Autonomy and responsibility



- ✓ Recognize, classify recall, and put in order
- ✓ Reflecting on the impacts of science and provide examples
- ✓ Determine, implement models
- ✓ Excellent observational skills specific skills
- ✓ Asking questions based on observation
- ✓ Accuracy in following procedures and keeping records
- ✓ Work with data
- ✓ Ability to manage time and prioritize tasks
- ✓ Interpersonal skills with ability to work well with others
- ✓ Ability to continually update knowledge in the specialist area

**BIO-Save
career profiles
In
Environmental
Science and
Protection
For level EQF 7**



BIO-Save Professional profiles

Environmental Science and Protection

EQF 7

Knowledge

Highly specialized knowledge, some of which is at the forefront of knowledge in a field of work or study, as the basis for original thinking and/or research Critical awareness of knowledge issues in a field and at the interface between different fields

Skills

Specialized problem-solving skills required in research and/or innovation in order to develop new knowledge and procedures and to integrate knowledge from different fields

Responsibility and autonomy

Manage and transform work or study contexts that are complex, unpredictable and require new strategic approaches; take responsibility for contributing to professional knowledge and practice and/or for reviewing the strategic performance of teams



EQF 7

M.Sc. Degree professional

Professional Profile for:	Conservation scientist - ESCO 2133.3
General abilities (knowledge & skills)	<ul style="list-style-type: none"><input type="checkbox"/> Understand the main ecological processes and phenomena in the supra-organismic structures of organization of living matter, the adaptations of organisms to the dynamic conditions of the environment, biological diversity and the possibilities of ecosystems to support this diversity<input type="checkbox"/> Analyze and interpret ecological data for monitoring and conservation biology activities<input type="checkbox"/> Practice data analysis and statistics, interpret statistical tests outcomes, discuss and explain statistical methods<input type="checkbox"/> Do climate modelling<input type="checkbox"/> Acquire academic skills, like the finding and use of relevant information, understanding scientific integrity, avoiding plagiarism and presentation skills
Green abilities (knowledge & skills)	<ul style="list-style-type: none"><input type="checkbox"/> Describe and explain the main environmental challenges in relation to urban development, nature and biodiversity, climate change, air pollution and energy<input type="checkbox"/> Research environmental impact of industrial or development activities
Digital abilities (knowledge & skills)	<ul style="list-style-type: none"><input type="checkbox"/> Utilize efficiently Office suit software<input type="checkbox"/> Operate with Internet browser software<input type="checkbox"/> Use information retrieval or search software<input type="checkbox"/> Operate with presentation software<input type="checkbox"/> Practice spreadsheet and word processing software<input type="checkbox"/> Use of Geographic information system

Environmental Health & Safety Professional

<i>Professional Profile for:</i>	Farming, Forestry and Fisheries Advisers - ESCO 2132
General abilities (knowledge & skills)	<ul style="list-style-type: none"> <input type="checkbox"/> Conduct research and perform investigation to identify or eliminate sources of pollutants or hazards that affect the environment health. <input type="checkbox"/> Investigate potential environmental health risks address issues arising from soil and water contamination. <input type="checkbox"/> Study how environmental factors affect human health <input type="checkbox"/> Ensure the companies comply with environmental regulations and policies. <input type="checkbox"/> Consult on environmental regulations designed to protect people’s health and minimize society’s impact on the ecosystem. <input type="checkbox"/> Assess the risks that new construction projects impose to the environment and make recommendations to governments and businesses on how to minimize their negative environmental impact.
Green abilities (knowledge & skills)	<ul style="list-style-type: none"> <input type="checkbox"/> Educate the public about health risks that may be present in the environment <input type="checkbox"/> Endorse environmental safety practices <input type="checkbox"/> Introduce technics for climate change mitigation
Digital abilities (knowledge & skills)	<ul style="list-style-type: none"> <input type="checkbox"/> Utilize efficiently Office suit software <input type="checkbox"/> Operate with Internet browser software <input type="checkbox"/> Use information retrieval or search software <input type="checkbox"/> Practice spreadsheet and word processing software <input type="checkbox"/> Use environmental health and safety data management systems

Biotech SME Manager

<i>Professional Profile for:</i>	Research and development product managers - ESCO 1223.1
General abilities (knowledge & skills)	<ul style="list-style-type: none"><input type="checkbox"/> Perform scheduling and coordinating work and activities<input type="checkbox"/> Perform research and advice on manufacturing practices against the use of chemicals that are known to harm the environment<input type="checkbox"/> Work with industry to increase the efficiency of their operations and limit the negative impacts on the environment.<input type="checkbox"/> Analyze costs and benefits of various programs and their impacts on ecosystems.<input type="checkbox"/> Research policies, practices, or procedures for environmental management.<input type="checkbox"/> Develop methods to minimize the impact of production processes on the environment, based on the study and assessment of industrial production, environmental legislation, and physical, biological, and social environments.
Green abilities (knowledge & skills)	<ul style="list-style-type: none"><input type="checkbox"/> Consult and advise about green solutions and spread the use of green technologies<input type="checkbox"/> Promote greener products and services<input type="checkbox"/> Identify opportunities that create innovative strategies responding to green challenges<input type="checkbox"/> Rise environmental awareness and manage approaches to environmental objectives<input type="checkbox"/> Monitor environmental impacts of development activities
Digital abilities (knowledge & skills)	<ul style="list-style-type: none"><input type="checkbox"/> Operate calendar and scheduling software<input type="checkbox"/> Use staff scheduling software<input type="checkbox"/> Practice desktop communication software<input type="checkbox"/> Use information retrieval or search software<input type="checkbox"/> Practice spreadsheet software and word processing software

In-company Training Professional

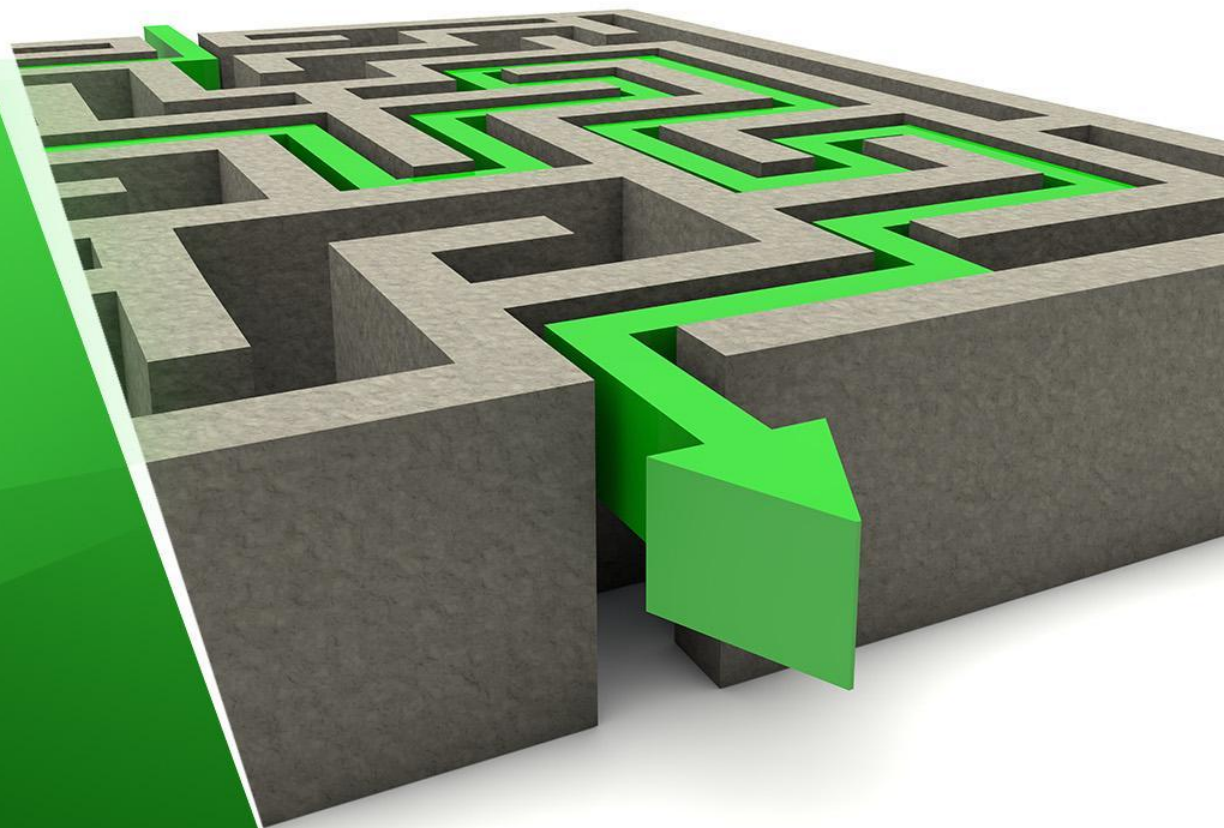
<i>Professional Profile for:</i>	Vocational Education Teachers - ESCO 2320
General abilities (knowledge & skills)	<ul style="list-style-type: none"> <input type="checkbox"/> Perform outreach education activities for environmental protection <input type="checkbox"/> Instruct on understanding the main anthropogenic factors influencing the environment and the ecological effects of this influence <input type="checkbox"/> Contribute to the building of sustainability competences of trainees for a greener, more sustainable future <input type="checkbox"/> Prepare study reports and other written materials to inform professional branches on environmental issues <input type="checkbox"/> Train in development of abilities to analyze and propose solutions to reduce environmental impact <input type="checkbox"/> Rise environmental awareness and a willingness to learn about sustainable development
Green abilities (knowledge & skills)	<ul style="list-style-type: none"> <input type="checkbox"/> Assists organizations' staff to conduct their activities in an environmentally appropriate manner <input type="checkbox"/> Deal with the green transition and sustainability <input type="checkbox"/> Make training greener through the use of ICT, project-based learning, and creativity-based approaches <input type="checkbox"/> Promote green skills for 2030 Agenda for Sustainable Development SDGs achievement
Digital abilities (knowledge & skills)	<ul style="list-style-type: none"> <input type="checkbox"/> Use information retrieval or search software <input type="checkbox"/> Utilize efficiently Office suit software <input type="checkbox"/> Operate with Internet browser software <input type="checkbox"/> Operate with presentation software <input type="checkbox"/> Practice spreadsheet and word processing software <input type="checkbox"/> Use of Geographic information system

Autonomy and responsibility



- ✓ Compare/contrast, relate, and use models
- ✓ Compute, retrieve, measure
- ✓ Processing evaluating, interpret information, and explain
- ✓ Reasoning and argument/ Inquiring and Designing
- ✓ Generating evidence
- ✓ Intellectual energy and independent thinking to address questions through research
- ✓ Thorough attention to details
- ✓ Critical-thinking and analytical skills
- ✓ Problem-solving skills
- ✓ Skills and experience to work independently and manage own workload

**BIO-Save
career profiles
In
Environmental
Science and
Protection
For level EQF 8**



BIO-Save Professional profiles

Environmental Science and Protection

EQF 8

Knowledge

Knowledge at the most advanced frontier of a field of work or study and at the interface between

Skills

The most advanced and specialised skills and techniques, including synthesis and evaluation, required to solve critical problems in research and/or innovation and to extend and redefine existing knowledge or professional practice

Responsibility and autonomy

Demonstrate substantial authority, innovation, autonomy, scholarly and professional integrity and sustained commitment to the development of new ideas or processes at the forefront of work or study contexts including research



Ph.D.Degree professional

<i>Professional Profile for:</i>	Environmental Protection Professionals - ESCO 2133
General abilities (knowledge & skills)	<ul style="list-style-type: none"><input type="checkbox"/> Develops technics to improve efficiency of procedures in agricultural sector<input type="checkbox"/> Propose the type, intensity and structure of agricultural procedures<input type="checkbox"/> Promotes the European and national policy in the field of agriculture<input type="checkbox"/> Organize necessary equipment and supplies schemes<input type="checkbox"/> Accomplish tests and experiments to propose adequate pest control<input type="checkbox"/> Coordinate the control methods on environmental toxins, parasites and diseases<input type="checkbox"/> Deliver guidance on fertilization, cultivation, harvesting and nutrition<input type="checkbox"/> Implements techniques minimizing soil erosion
Green abilities (knowledge & skills)	<ul style="list-style-type: none"><input type="checkbox"/> Promotes main bioremediation methodologies<input type="checkbox"/> Describes methods for sufficient use of water reserves<input type="checkbox"/> Encourages organic farming practices<input type="checkbox"/> Implement good agricultural practices into everyday practice
Digital abilities (knowledge & skills)	<ul style="list-style-type: none"><input type="checkbox"/> Use geographic resources analysis support system Global Mapper Software Global Mapper, etc.<input type="checkbox"/> Use analytical or scientific software.<input type="checkbox"/> Use of statistical tools for multivariate analysis.

Academic professional

<i>Professional Profile for:</i>	University, and Higher Education Teachers - ESCO 2310
General abilities (knowledge & skills)	<ul style="list-style-type: none"> <input type="checkbox"/> Do research in a scientific way, with transparency and repeatability <input type="checkbox"/> Collect, synthesize, analyze, manage, and report environmental data <input type="checkbox"/> Determine data collection methods to be employed in research projects or surveys <input type="checkbox"/> Analyze data to determine validity, quality, and scientific significance and to interpret correlations between human activities and environmental effects. <input type="checkbox"/> Communicate scientific or technical information to the public, organizations, or internal audiences <input type="checkbox"/> Design studies to obtain technical environmental information about planned projects.
Green abilities (knowledge & skills)	<ul style="list-style-type: none"> <input type="checkbox"/> Monitor effects of pollution or land degradation and recommend means of prevention or control <input type="checkbox"/> Provide information on the environmental relevance of experimental data. <input type="checkbox"/> Describe and explain the main environmental challenges in relation to urban development, nature and biodiversity, climate change, air pollution and energy.
Digital abilities (knowledge & skills)	<ul style="list-style-type: none"> <input type="checkbox"/> Work freely with analytical or scientific software <input type="checkbox"/> Utilize efficiently Office suit software <input type="checkbox"/> Operate with Internet browser software <input type="checkbox"/> Use information retrieval or search software <input type="checkbox"/> Operate with presentation software <input type="checkbox"/> Practice spreadsheet and word processing software

Autonomy and responsibility



- ✓ Analyze, synthesize, formulate hypothesis
- ✓ Predict, design investigation, evaluate,
- ✓ Draw conclusions, generalize, justify
- ✓ Making an argument from evidence
- ✓ Answering research questions and investigating patterns
- ✓ Explain phenomena scientifically
- ✓ Evaluate and design scientific enquiry
- ✓ Creativity and initiative to develop new ideas
- ✓ Strong written and verbal communication skills
- ✓ Seeking to foster fruitful collaborations

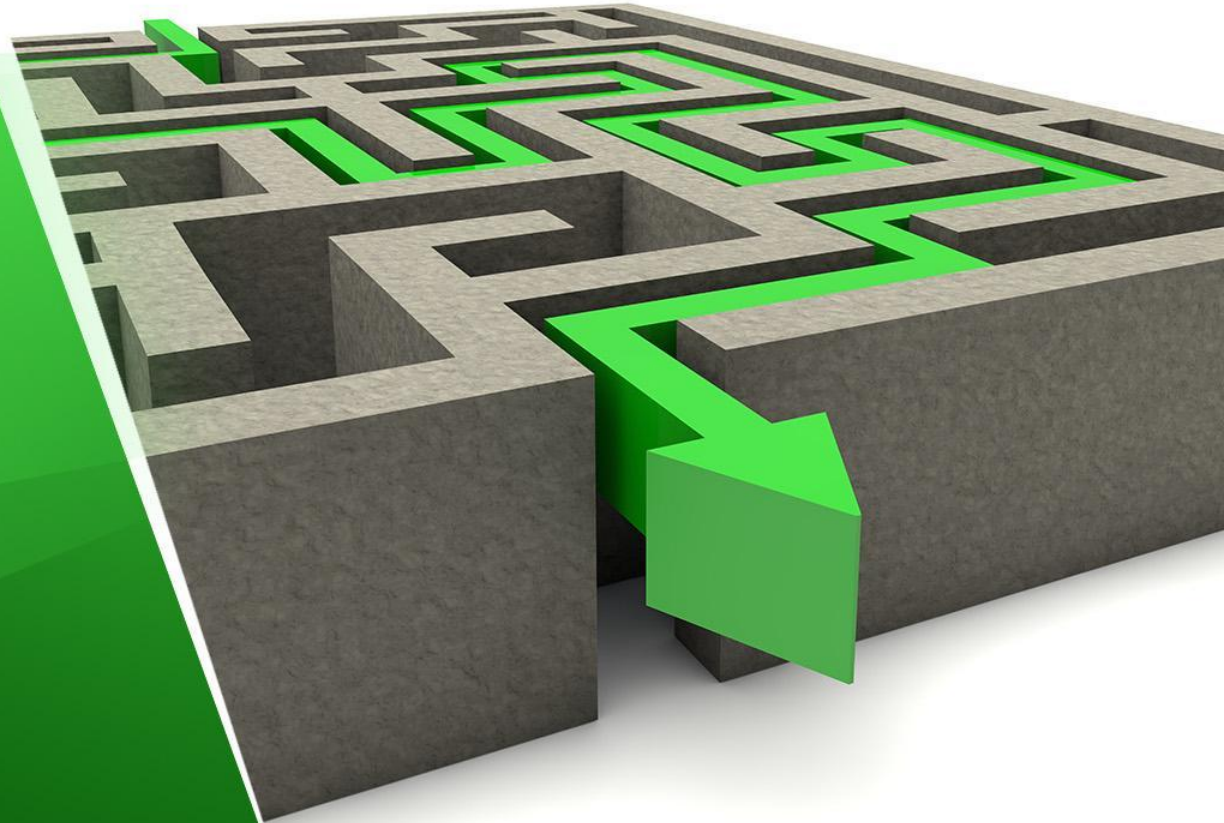
BIO-Save
Competence Catalogue

Part III

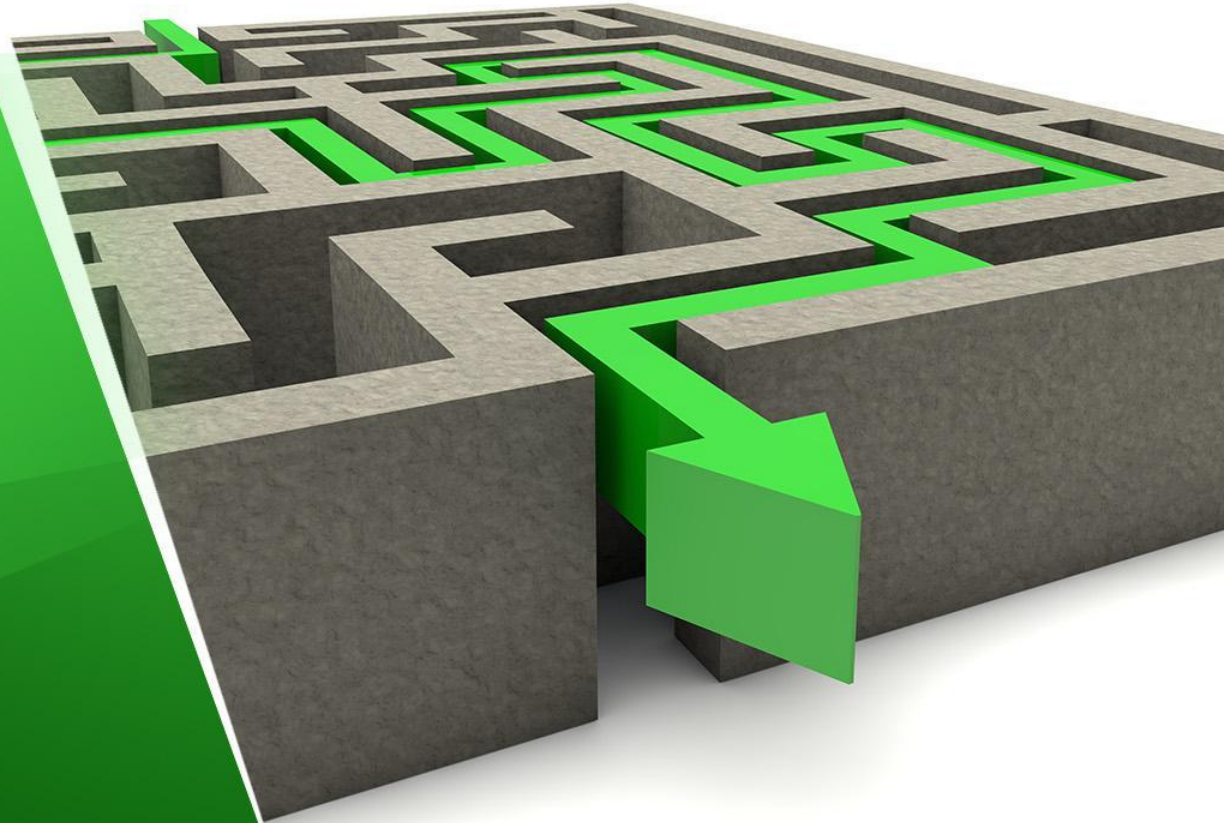
Competence records



*Environmental
Science and
Protection*



**Knowledge & skills
gained through
BIO-Save learning
resources**



Adaptation to abiotic stresses and evaluation of adaptation measures

Upon completion of this course the graduate will be able to:

- To provide an overview and describe the abiotic factors and abiotic stress tolerance, tools and associated data commonly used in the vulnerability and adaptation evaluation;
- To provide some background information on the vulnerability and to quantify the improved adaptation to abiotic stress of the living cells;
- To make a causal link between adaptation and evolution.

Crop diversification and opportunity for climate change resilience

Upon completion of this course the graduate will be able to:

- To provide an overview of the crop diversification and associated data commonly used in the agricultural sector for crop diversification and adaptation;
- To assess the crop ranking and study the crop combinations;
- To provide a background information on the vulnerability of crop diversification to climate change and adaptation options;
- To support the educational concept and content with ppt, videos and project work materials.

Agroecosystems responses to combination of elevated CO₂, ozone, salt and heat changes

Upon completion of this course the graduate will be able to:

- Know the major factor linked to climate change that may lead to change in productivity;
- Be familiar with the concept of “ climate-sensitive soil ecosystems”;
- Discuss the procedures for counteracting climate change;
- Support the educational concept and content being able of writing essays and power point presentations.

**BIO-Save
Individual profile**

Create your Future here



Individual profile

✓ Skills in
.....
(BIO-Save Horizon)

✓ Competence in
.....
(BIO-Save Horizon)

✓ Experience in
.....
(BIO-Save Horizon)

- Indicate
the skills and competences
you have reached in the
current training

- Present
the Credit Points gained

Individual profile



Individual profile :

✓ *Experience in*

.....

(BIO-Save Horizon)

- *Provide any documents and evidence of experience in BIO-Save Horizon*
- *Provide a chronological list of any paid, volunteer, fieldwork, etc*

Individual profile



Individual profile :

- ✓ *Competence profile certificate (CPC)
(BIO-Save Horizon)*

Present the CPC you have been awarded on the basis of the individual profile(s) you have obtained upon completion of BIO-Save training programme

Digital Competence



- ✓ *Use the grid to assess your digital competence*
- ✓ *Describe your digital knowledge, skills and competence*
- ✓ *Provide Certificates that you have*

DIGCOMP self-assessment grid

<https://www.reactivatejob.eu/multimedia/uploads/documents/DigitalCompetences-en.pdf>

Language Competence



- ✓ *Use the grid to assess your linguistic competence*

Common European Framework of Reference for Languages – Self-assessment grid

[https://www.cedefop.europa.eu/files/europass - european language levels - self assessment grid.pdf](https://www.cedefop.europa.eu/files/europass_-_european_language_levels_-_self_assessment_grid.pdf)

- ✓ *Describe your language knowledge, skills and competence*
- ✓ *Provide Certificates that you have*

Individual profile



Other certificates:

- ✓ *Conferences*
- ✓ *Seminars*
- ✓ *Courses*

Provide: Honors or awards you received

Individual profile



Professional goals statement:

- ✓ *Describe your ideas for the tasks and mission realization and achievement of your goals*

.....

.....

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(max. one page or 500 words)