**Technician for agriculture in bio economy - EQF level 5**

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| **Code** | Later defined by ESCO |
| **Description** | The **Technician for Agriculture in Bioeconomy** manages and controls the production processes by identifying and coordinating procedures useful for saving resources and developing the company according to the reference territorial context. They will also manage the operational organization, the implementation of continuous improvement procedures, the monitoring and evaluation of the results using digital methodologies and technologies. They assume responsibilities related to the oversight of executive activities carried out by others. The technical training in the use of methodologies, tools and information specialized in the bioeconomy, allows to carry out activities related to the management and choice of production addresses, investments, marketing chains, etc., with particular attention to the sustainability of processes and of products. |
| **Alternative label** | Later defined by ESCO |
| **Regulatory Framework** |  |
| **Hierarchy** | Later defined by ESCO |
| **More specific professions** | Later defined by ESCO (we think of all the SOFT skills) |
| **Essential skills** | From the core curriculum (Module Soft-skills and Entrepreneurship) – Annex I* Planning and coordinating production, Performing farming operations in line with bioeconomy principles
* Production techniques for non-food products (biobased products), industrial crops; Crop diversification and crop rotation
* Production and Management of renewable energy
* Organic production techniques
* Treatment and reuse of reclaimed water
* Inorganic waste management practices
* Agricultural valorisation of organic fertilizers
* Management of slurry in livestock farms
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| **Essential knowledge** | * Bio-economy and circular economy principles
* Basic environmental and climate change introduction
* Biomass production
* Biodegradable compostable materials
* Re-use and recycling and valorisation of raw materials
* Biodiversity
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| **Optional skills** | * Direct distribution and marketing skills (short food supply chains)
* Controlled Environment Agriculture; horticulture, urban farming
* Plant/animal breeding resilience
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| **Optional knowledge** | * Product traceability
* Information & adoption about climate changes
* Labelling of products/packaging
* Food ethics
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| **State** |  |
| **Concept URI** |  |

**Annex I**

**Basic Module for each occupational profile.**

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| **Units**  | **Learning outcomes** |
| **Basic knowledge** | * Definitions (soft skills, food industry, sustainability, bioeconomy)
* Job safety
* Digital learning/tools
* Basic of economic and financial issues
* English reading/understanding
* Business-/Entrepreneurship Skills in general
* Knowledge of agri-food communities
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| **Business planning/model** | * Innovation management and its deployment
* Project management
* Decision making
* Time management
* Business planning
* Sales and Marketing
* Cooperatives
* Agri-food law, quality, safety and certification
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| **Social & Communication** | * Public speaking
* Negotiation and conflicts
* Food chain cooperation
* Staff working/networking
* Reporting and briefing
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| **Thinking** | * Organisation, planning, proactive, flexible, and strategic thinking
* Problem solving
* Interdisciplinary knowledge
* Learning Continuously
* Analytical, critical and creative thinking
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