**Technician for Sustainable Agriculture – EQF level 5**

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| **Code** | Later defined by ESCO |
| **Description** | The **Technician for sustainable agriculture** performs technical tasks related to production, resources preservation and company development according to sustainability requirements and the local context.Tasks performed usually include the supervision and control of production processes, the implementation of continuous improvement procedures and the monitoring and evaluation, by identifying and coordinating procedures useful for resource preservation and developing the company according to the local context. Operational organization, the smooth and steadiness implementation of regulations of continuous improvement procedures, and the monitoring and evaluation of the results using digital methodologies and technologies. Assumes responsibilities related to the supervision of activities carried out by others. Carries out activities related to the identification and choice of production addresses, investments, marketing chains, etc., with particular attention to good agricultural practices and sustainability of processes and products. |
| **Alternative label** | Later defined by ESCO |
| **Regulatory Framework** |  |
| **Hierarchy** | Later defined by ESCO |
| **More specific professions** | Agriculture Management and SustainabilityWater Management and Sustainability |
| **Essential skills** | From the core curriculum (Module Soft-skills and Entrepreneurship – See Annex I)Soil health managementCrop rotation and new crop technicsWater/groundwater managementAdaptation and Mitigation to climate changeEfficient use of resources; Waste prevention and valorisation of by-productsAgri-environmental practicesLow Emission Spreading/Spraying Equipment and practicesIntegrated pest and disease managementSustainable feed sources and animal nutrition (sustainable sourcing, reducing emissions)Energy management: energy efficiency; renewable energy |
| **Essential knowledge** | Good agricultural practices: Crop diversification; conservation farming; Agroforestry; Biodiversity; crop protection; Grassland ManagementCircular economy: Traceability and Life cycle assessment aspectsEnvironmental management aspects; GHG’s emission reduction; climate changeLegislation regarding the issue of water; Protected Area; Sustainable Land Use Measures and regulatory framework; Environmental LicensingSmart farming introductory aspects (relation to the Digitalisation OP)Soil nutrients and fertility |
| **Optional skills** | Minerals and emission accountingZero Waste Management PracticesCorporate Social ResponsibilityRenewable energy production: Generation, Storage and use of renewable EnergiesPrecision animal healthSlurry management and valorisatione-commerce and short supply chains |
| **Optional knowledge** | Indoor vertical farming (horticulture)Animal welfare; Well-being and health New Grasslands such as mixed species swardsWeather forecast knowledge and/or toolsGenerational renewal |
| **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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