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

|  |  |
| --- | --- |
| **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 Sustainability  Water Management and Sustainability |
| **Essential skills** | From the core curriculum (Module Soft-skills and Entrepreneurship – See Annex I)  Soil health management  Crop rotation and new crop technics  Water/groundwater management  Adaptation and Mitigation to climate change  Efficient use of resources; Waste prevention and valorisation of by-products  Agri-environmental practices  Low Emission Spreading/Spraying Equipment and practices  Integrated pest and disease management  Sustainable 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 Management  Circular economy: Traceability and Life cycle assessment aspects  Environmental management aspects; GHG’s emission reduction; climate change  Legislation regarding the issue of water; Protected Area; Sustainable Land Use Measures and regulatory framework; Environmental Licensing  Smart farming introductory aspects (relation to the Digitalisation OP)  Soil nutrients and fertility |
| **Optional skills** | Minerals and emission accounting  Zero Waste Management Practices  Corporate Social Responsibility  Renewable energy production: Generation, Storage and use of renewable Energies  Precision animal health  Slurry management and valorisation  e-commerce and short supply chains |
| **Optional knowledge** | Indoor vertical farming (horticulture)  Animal welfare; Well-being and health  New Grasslands such as mixed species swards  Weather forecast knowledge and/or tools  Generational renewal |
| **State** |  |
| **Concept URI** |  |

**Annex I**

**Basic Module for each occupational profile.**

|  |  |
| --- | --- |
| **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 |
| **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 |
| **Social & Communication** | * Public speaking * Negotiation and conflicts * Food chain cooperation * Staff working/networking * Reporting and briefing |
| **Thinking** | * Organisation, planning, proactive, flexible, and strategic thinking * Problem solving * Interdisciplinary knowledge * Learning Continuously * Analytical, critical and creative thinking |