### Operator for bioeconomy in agriculture, food-industry and forestry – EQF level 4

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| **Code** | Later defined by ESCO |
| **Description** | The **Operator for Bioeconomy in agriculture, food-industry** **and forestry** intervenes at executive level in the working process with autonomy and responsibility limited to what the procedures and methods of its operation provide. The qualification in the application and use of basic methodologies, tools and information allows to collaborate in the management of the company and to carry out activities related to the production and protection of the environment through the application of bioeconomy procedures, with skills in carrying out fundamental operations relating to production as well as in carrying out operations in the transformation of primary products and in the use of ecological protection techniques and sustainable use of resources. It will also allow management of the different phases of the agri-food production process, using machines and digital tools fitted to the specific fields and processing cycles with particular regard to sustainable and quality processes. |
| **Alternative label** | Later defined by ESCO |
| **Regulatory Framework** |  |
| **Hierarchy** | Later defined by ESCO |
| **More specific professions** | Later Defined by ESCO |
| **Essential skills** | From the core curriculum (Module Soft-skills and Entrepreneurship) – Annex I   * Management of natural resources, * Biomass production and transformation * Planning and coordinating production * Traceability * Efficient use of resources and logistics * Production, management of renewable energy and its use, * By-products and co-products valorisation |
| **Essential knowledge** | * Bio-economy and circular economy principles * Biobased products and ecosystem services, re-use, recycling; nutrients circulation vs nutrients removal * Food waste reduction * Energy efficient production methods * Knowledge about the forestry and agri-food production chain |
| **Optional skills** | * Transportation & logistics implementation management * Application of circular economy and recycling practices |
| **Optional knowledge** | * Quality certification * New markets for bio-based products/construction/biomaterials |
| **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 |
| **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 |