*MiroBoard Link :* [*https://miro.com/welcomeonboard/gaYTM3u4sncphl06m0c1DIsYVjzFXyMvs6SFY3Qht2Op2yOHgrOr27sCeWde9Jsh*](https://miro.com/welcomeonboard/gaYTM3u4sncphl06m0c1DIsYVjzFXyMvs6SFY3Qht2Op2yOHgrOr27sCeWde9Jsh)

**Technician for sust-bioec-dig on forestry**

*Complete the table below.*

|  |  |
| --- | --- |
| **Code** | Later defined by Esco |
| **Description** | To provide a farm analysis To know the principles of precision forestryTo provide state-of-the-art digital solutions and combine different optionsTo advise and support foresters |
| **Alternative label** | Later defined by Esco |
| **Regulatory Framework** |  |
| **Hierarchy** | Later defined by Esco |
| **More specific professions** | Later defined by Esco |
| **Essential skills** | Soft skills: Analytical, critical, and creative thinking, organisation, planning, visioning, and strategic thinking, problem solving, flexibility and adaptabilityICT EssentialsMitigation to climate changeEfficient use of resources and logisticsBy-products and co-products valorisationSoil nutrient health managementBiodiversityRenewable energySustainable and multifunctional Forest managementWater managementEquipment in the pulp, paper, timber and cork industryReforestation, afforestation & restoration of forest ecosystemsMulti-functional Forests and Ecosystem Servicesnew markets for bio based products/construction/biomaterialsmanagement of natural resourcesProtection against firesForest disease control and preventionPrevention and management of natural disturbancesProduction and extraction of Products of forestrySafety of workers and healthForest equipment/machinery and maintenanceCalculating, handling and managing riskHealth and safety managementUse of digital technologies Use of organisation toolsImplementation of data transfer systemImplementation of Forest Management Information SystemsAnalytical, critical, and creative thinkingProblem solving through digital toolsOrganisation, planning, visioning, and strategic thinkingKnowledge of legal frameworks related to digitalisation |
| **Essential knowledge** | European environmental legislation/regulationEnvironmental policies, regulation, subsidy and support programmesLife cycle assessment (LCA) aspectsForestry smart systems and technologies introductory aspectsWeather forecast knowledge and/or toolsWood technologySustainable forest management practices and planningValorisation of forestry residues and industrial side New technologies in pulp and paper manufacturingUse of by-products of timber harvesting (nutrients circulation vs nutrients removal)Circular economy and recycling in the pulp and paper industryRe-use, recycling and valorisation of raw materials, by-products and wasteResidues and industrial side new technologies in pulp and paper manufacturingProcess operationsKnowledge of general forestry principlesKnowledge of technical principles for digital forestryGeneral ICT knowledgePrecision forestry knowledgeKnowledge of advantages and disadvantages of available technologies (assessment criteria)Basic GIS knowledgeUse traditional data analysis softwareKnowledge of Decision Support SystemsKnowledge of Forest Management Information Systems |
| **Optional skills** | Use of big data analytics toolsUse of robots/dronesProgramming skillsUse of communication toolsUse of LCA tools |
| **Optional knowledge** | Basic artificial intelligence knowledgeKnowledge of data protectionKnowledge of weather forecastingCircular economy knowledgeKnowledge of fife cycle assessment (LCA)Biomass production and transformation Biobased products and eco-system services Increasing demands for wood, Urban green spaces/forests  |
| **State** |  |
| **Concept URI** |  |