*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 forestry  To provide state-of-the-art digital solutions and combine different options  To 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 adaptability  ICT Essentials  Mitigation to climate change  Efficient use of resources and logistics  By-products and co-products valorisation  Soil nutrient health management  Biodiversity  Renewable energy  Sustainable and multifunctional Forest management  Water management  Equipment in the pulp, paper, timber and cork industry  Reforestation, afforestation & restoration of forest ecosystems  Multi-functional Forests and Ecosystem Services  new markets for bio based products/construction/biomaterials  management of natural resources  Protection against fires  Forest disease control and prevention  Prevention and management of natural disturbances  Production and extraction of Products of forestry  Safety of workers and health  Forest equipment/machinery and maintenance  Calculating, handling and managing risk  Health and safety management  Use of digital technologies  Use of organisation tools  Implementation of data transfer system  Implementation of Forest Management Information Systems  Analytical, critical, and creative thinking  Problem solving through digital tools  Organisation, planning, visioning, and strategic thinking  Knowledge of legal frameworks related to digitalisation |
| **Essential knowledge** | European environmental legislation/regulation  Environmental policies, regulation, subsidy and support programmes  Life cycle assessment (LCA) aspects  Forestry smart systems and technologies introductory aspects  Weather forecast knowledge and/or tools  Wood technology  Sustainable forest management practices and planning  Valorisation of forestry residues and industrial side  New technologies in pulp and paper manufacturing  Use of by-products of timber harvesting (nutrients circulation vs nutrients removal)  Circular economy and recycling in the pulp and paper industry  Re-use, recycling and valorisation of raw materials, by-products and waste  Residues and industrial side new technologies in pulp and paper manufacturing  Process operations  Knowledge of general forestry principles  Knowledge of technical principles for digital forestry  General ICT knowledge  Precision forestry knowledge  Knowledge of advantages and disadvantages of available technologies (assessment criteria)  Basic GIS knowledge  Use traditional data analysis software  Knowledge of Decision Support Systems  Knowledge of Forest Management Information Systems |
| **Optional skills** | Use of big data analytics tools  Use of robots/drones  Programming skills  Use of communication tools  Use of LCA tools |
| **Optional knowledge** | Basic artificial intelligence knowledge  Knowledge of data protection  Knowledge of weather forecasting  Circular economy knowledge  Knowledge 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** |  |