

Tabel 1. Matrix between ILO Soil Science and The Subject-Specific Criteria (SSC) of the Technical Committee 08 - Agriculture, Forestry, Food Sciences, and Landscape Architecture

		Knowledge				Special Skills						
SSC 08 Graduate Competences		Mastering knowledge about the process of soil formation and soil morphology	Mastering knowledge about land use and land-based geospatial.	Mastering knowledge about the quality and use of land and land in a sustainable manner.	Mastering knowledge about land conservation, degraded land and its reclamation	Able to describe the properties, characteristics of various types of soil as well as the potential and constraints in their use in agriculture	Able to identify various soil and land problems in agricultural cultivation and apply the principles of Soil Science in various conditions.	Able to classify soils, evaluate land suitability classes and choose alternative uses in a sustainable manner, so as to maintain the ecological functions of the soil based on field observations, laboratory and landscape analysis and cartographic mapping.	Able to carry out land surveys and mapping to evaluate capability and suitability of land as the basis for sustainable land use planning.	Able to diagnose visually and/or laboratory symptoms of weakness (deficiency) of nutrients and toxicity and alternative solutions of various types of main cultivated plants in agriculture, plantations and forestry.	Able to compile fertilizer recommendations including types and doses of fertilizers based on specific locations on various types of soil and cultivated plants.	Able to analyze, determine and carry out soil and water management actions based on the principles of sustainable agriculture supported by field observations, laboratory and landscape analysis.
Knowledge and Understanding	know and understand the principles of natural sciences, social science, mathematics, medical science, economics and engineering their discipline is based on;	X	X	X	X							
	have a coherent knowledge in their discipline including knowledge of the latest findings in their discipline;		X	X	X							
	know concepts of identification and safeguarding of quality in their respective fields of work;				X							
	know the essential legal regulations relating to their discipline;			X								
	are aware of the further multidisciplinary context of agriculture, forestry, food science, or landscape architecture and neighbouring fields.			X	X							

