



AgriTech Solutions: Innovating VET for Sustainable Agriculture
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AgriTech Solutions: Innovative VET for Sustainable Agriculture
2024-1-RS01-KA210-VET-000244168

REPORT

For the implementation of activities for the needs of the project

Overview of existing qualifications

Overview of the representation of sustainable agricultural practices, precision agriculture, organic agriculture, renewable energy sources and the use of technology in agriculture in the curricula within the qualification.

Teacher: Jovo Katto

Place: Sombor

Qualification: Horticultural Technician

Short description

The teaching and learning plan was developed in 2021 based on the qualification standard. The horticultural technician organizes the process of production and cultivation of horticultural plants in closed and open areas, in accordance with the prescribed norms, standards and guidelines in the field of agricultural production. He performs work related to interior decoration with plant and flower arrangements, as well as the sale of horticultural products and services. He is trained in: developing a plan for sowing and planting horticultural plants in accordance with agroclimatic conditions; preparing the soil and horticultural planting material and organizing and conducting sowing and planting; recognizing the presence of diseases, pests and weeds, nutrition, care and protection of plants, as well as applying agrotechnical measures in conventional and biological agricultural production of horticultural plants; making plant and flower arrangements for interior decoration; calculating prices and promoting horticultural products and services.

Competencies:

Preparation for work and implementation of hygienic, protective and environmental measures in the production of horticultural plants;
Organization of the production of horticultural planting material;
Planning and organization of horticultural plant cultivation;
Interior decoration with plant arrangements;



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Performing administrative and commercial work in the production and sale of horticultural products and services. Based on the review of the vocational programs

subjects, it can be concluded that the technologies of sustainable agricultural practices, precision agriculture, organic agriculture, renewable energy sources and the use of modern technologies in agriculture are represented to a certain extent. Corrections to the program are needed.

Proposal for improving the existing qualification in terms of the representation of sustainable agricultural practices, precision agriculture, organic agriculture, renewable energy sources and the use of technology in agriculture in the curricula within the qualification.

It is necessary to improve the existing qualification in the following subjects:

Pedology and Agrochemistry: in the Soil module – to increase the presence of precision agriculture in soil sampling. In the Plant Nutrition and Fertilization module – to increase the presence of sustainable agricultural practices, precision agriculture and organic production.

Plant protection – to increase the prevalence of sustainable agricultural practices and precision agriculture.

Agricultural machinery – to increase the prevalence of precision agriculture when using agricultural machinery.

Horticulture – to increase the prevalence of sustainable agricultural practices, precision agriculture and renewable energy sources in horticulture.

Fruit and viticulture – to increase the prevalence of sustainable agricultural practices, precision agriculture and renewable energy sources in fruit and vegetable growing.

Floriculture – to increase the prevalence of sustainable agricultural practices and precision agriculture.

Establishment and maintenance of green areas – to increase the prevalence of sustainable agricultural practices and precision agriculture.

Medicinal and spice plants – to increase the prevalence of sustainable agricultural practices and precision agriculture.

Professional practice – to increase the prevalence of precision agriculture, renewable energy sources and sustainable agricultural practices.

Organic production in horticulture – elective subject: organic production should be more represented in the mandatory vocational subjects of plant production as a separate module.

1. Organic production in fruit growing and viticulture – elective subject:

Organic production should be more represented in the mandatory vocational subjects of plant production as a separate module.



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In Sombor

Teacher

Date 13.07, 2025. year

Jovo Cato



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