



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: Agricultural equipment operator

Short description

The teaching and learning plan was developed in 2023 based on the qualification standard.

Checks the technical condition of the machine (control of fuel, lubricants, coolant, signaling devices, steering devices, driving devices, braking devices, etc.).

Checks the settings and corrects the settings of the machines according to the working conditions (type and condition of the soil, weather conditions, degree of weeding, amount of plant residues, etc.). Adjusts the operating mode of the aggregates to the weather conditions. Operates tractor aggregates when performing technological operations in agricultural production. Operates combine harvesters and self-propelled machines in the process of agricultural production. Uses a navigation device (GPS system) when working with digital agricultural machinery. Implements a GIS system, which provides basic information about the boundaries of the plot. Implements the ISOBUS 11783 standard, which enables compatibility of tractors

and connecting machines from different manufacturers.

Competencies

Planning, preparation and organization of one's own work;

Handling aggregates and self-propelled machines in the production process;



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Preventive maintenance of agricultural machinery;
Application of personal and environmental protection measures.

Based on the review of the programs in vocational 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 necessary.

Proposal for improving the existing qualification in terms of representation of sustainable agricultural practices, precision agriculture, organic farming, 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:

Agricultural machinery

To increase the prevalence of sustainable agricultural practices and the use of technology in agriculture.

Basics of plant production

To increase the prevalence of sustainable agricultural practices and precision agriculture.

Engines and tractors

To increase the prevalence of sustainable agricultural practices.

Operation of agricultural machinery

To increase the prevalence of sustainable agricultural practices and renewable energy sources.

Professional practice

To increase the prevalence of sustainable agricultural practices and renewable energy sources.

Precision Agriculture – Elective Course

To increase the prevalence of sustainable agricultural practices and the use of technology in agriculture.

In Sombor

Teacher

Date 13.07, 2025. year

Jovo Cato



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