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| Educational program | 6B08101 Agronomics |
| EP purpose | Training of highly qualified specialists with subject-specialized competencies in professional activities for the cultivation of agricultural crops, rational use of natural and material resources, storage of crops, primary processing of crop products as an agronomist at agricultural enterprises of the agro-industrial complex of various forms of ownership, contributing to its social mobility and competitiveness in the labor market. |
| EP type | New EP |
| Level on NQF | 6 |
| Level on SQF | 6 |
| The awarded academic degree | bachelor |
| Period of study | 4 |
| Volume of the credits | 240 |
| Language of education | Kazakh, Russian |
| Date of approval of the OP at the Board meeting | 06.04.2022 (protocol No. 10) |
| Professional standard | Cultivation of sugar beet and its seeds; Activities of nurseries; |

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| № | Learning outcomes: |
| 1 | To show an active civic position in interpersonal and intercultural communication in a multilingual environment based on fundamental knowledge and skills in the field of social, political, cultural, psychological sciences in the context of their role in the modernization and digitalization of Kazakh society; |
| 2 | To carry out communication in oral and written forms in Kazakh/Russian and foreign languages to solve scientific problems of interpersonal and intercultural interaction; to search, store, process and analyze information from various sources and databases, to present it in the required format using information, computer and network technologies; |
| 3 | Assess the quality of natural environments by chemical indicators; predict changes in the chemical composition and properties of soils in agricultural landscapes; adapt tillage systems taking into account soil fertility and fertilizers used; |
| 4 | Organize agrotechnical work to solve actual practical problems in the field of crop production, agriculture, breeding and seed production, plant protection; |
| 5 | Analyze and apply methods of combating diseases and pests of agricultural crops; develop and justify systems of protective and preventive measures against pests, diseases and weeds; |
| 6 | Uses modern approaches of meteorological support of agriculture in the regions; able to use agrometeorological information in the production of crop products; monitors compliance with established requirements, applicable norms, rules and standards; conducts activities for recycling, decontamination and disposal of various wastes; organizes the process of processing and recycling of agricultural waste; |
| 7 | Анализировать экономическую эффективность применения новых сортов, технологических приемов, удобрений, средств защиты растений; принимать решения по реализации технологий возделывания сельскохозяйственных культур в различных экономических и погодных условиях; |
| 8 | Assess the suitability of land for cultivation of agricultural crops; takes measures to reproduce soil fertility; uses methods for diagnosing the condition of reclaimed soils and evaluating the effectiveness of the drainage system; develops a set of measures for the primary development, cultivation and maintenance of reclaimed land; |
| 9 | Use cell and tissue cultures for microclonal reproduction and plant health improvement, cell selection, molecular and biochemical markers in plant breeding; |
| 10 | Predicts the consequences of the introduction of plants created by biotechnological methods; uses biotechnological techniques to increase the yield and stability of important agricultural crops; |
| 11 | Organizes agricultural work in the orchard and in the fruit and vegetable nursery; uses modern technologies for growing the main vegetable, feed and grain crops; |
| 12 | Assesses the design of cars and tractors, their mechanisms and systems; complements machine-tractor units and a fleet of agricultural enterprises; effectively organizes the technological process of production and technical operation of machines and mechanisms; |