

PROFESSIONAL AREA: AGRICULTURE AND FOOD – SUPPLY

| Professional area | Professional area | Educational level | General abilities (knowledge, skills, competences) (common for Groups 1 to 4) | Special “green” abilities (knowledge, skills, competences) | Digital abilities (knowledge, skills, competences) |
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| AGRICULTURE AND FOOD – SUPPLY | Group 1 | | <p>Agriculture and food-supply professionals ensure agriculture productivity, food production and food safety and efficient distribution of agriculture labors. They apply knowledge about animals, plants and humans’ life to improve agricultural production and solve food shortage and human health problems.</p> <p>Their knowledge and skills have to meet requirements of 3rd and / or 4th ISCO-08 / ESCO skill level.</p> <p>They can:</p> <ul style="list-style-type: none"> • plan, direct and coordinate production in agricultural, aquaculture, fishery and food operations • monitor production outputs, costs, quality and quantity • develop and implement technics to improve production efficiency | Group 1 | Group 1 |
| | <p>Production Managers in Agriculture, Forestry and Fisheries</p> <ul style="list-style-type: none"> • Agricultural and Forestry Production Managers • Aquaculture and Fisheries Production Managers | MSc, PhD | | | |

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| | | | <ul style="list-style-type: none"> plan the type, intensity and sequence of operation perform tests and experiments to identify and control environmental toxins, weed and diseases organize water supplies systems and equipment coordinate the implementation of health and safety requirements | sustainable agriculture and organic food production | <p><u>Electronic mail software:</u></p> <ul style="list-style-type: none"> Email software Microsoft Outlook <p><u>Desktop communication software:</u></p> <ul style="list-style-type: none"> Google Meet Microsoft Teams Skype and etc. |
| | Group 2 | | | Group 2 | Group 2 |
| | Manufacturing Engineers and Technologists | MSc | <ul style="list-style-type: none"> provide advices on fertilization, soil erosion, cultivation, harvesting and nutrition prepare the production records and reports develop and study production management plans | <ul style="list-style-type: none"> design, develop and construct food manufacturing processes and technics stabilizing food ingredients natural properties and enhance their health impact evaluate and identify opportunities to increase manufacturing process and resources use effectiveness with continues striving to reduce wastes work with commercial or industrial designers to refine bio-products design maintain up-to-date of current food safety and quality practices and regulations (GMP and HACCP), ensure their | <p><u>Specific professional area software:</u></p> <ul style="list-style-type: none"> IBM SPSS Statistics Autodesk AutoCAD Data entry software Infor Industrial Essentials Human machine interface HMI software Supervisory control and data acquisition SCADA software Materials requirement planning MRP software Production planning software and etc. <p><u>Office suit software:</u></p> <ul style="list-style-type: none"> Microsoft Office <p><u>Internet browser software:</u></p> <ul style="list-style-type: none"> Web browser software Microsoft Internet Explorer |

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| | | | <p>application and taking corrective actions</p> <ul style="list-style-type: none"> develop, implement and monitor environmental-friendly food-manufacturing waste disposal | <p><u>Calendar and scheduling software:</u></p> <ul style="list-style-type: none"> Staff scheduling software <p><u>Electronic mail software:</u></p> <ul style="list-style-type: none"> Email software Microsoft Outlook IBM Notes <p><u>Desktop communication software:</u></p> <ul style="list-style-type: none"> Google Meet Microsoft Teams Skype and etc. |
| | Group 3 | | Group 3 | Group 3 |
| | <p>Farming, Forestry and Fisheries Advisors</p> <ul style="list-style-type: none"> Agronomists Fisheries advisors Horticultural scientists Soil scientists | BSc, MSc | <ul style="list-style-type: none"> develop environmentally safe methods and strategies for controlling or eliminating weeds, crop diseases, or insect pests (integrated weed and pest management – IPM) develop methods for conserving or managing soil and fisheries to improve their production characteristics advise land or fisheries users on plans, problems, or alternative conservation solutions. | <p><u>Specific professional area software:</u></p> <ul style="list-style-type: none"> CropSyst Suite Water Soil and Hydro-Environmental Decision Support System WATERSHEDSS WinEPIC Autodesk AutoCAD State Soil Geographic STATSGO Database Water resources databases CroPMan ESRI ArcGIS software and etc. <p><u>Office suit software:</u></p> <ul style="list-style-type: none"> Microsoft Office |

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| | | | <ul style="list-style-type: none"> • conduct research into the use of plant and aquaculture species as green fuels or in the production of green fuels • plan, develop, and implement programme or policies for improving environmental habitats, wetlands, water, and soil resources | <p><u>Internet browser software:</u></p> <ul style="list-style-type: none"> • Web browser software • Microsoft Internet Explorer <p><u>Calendar and scheduling software:</u></p> <ul style="list-style-type: none"> • Staff scheduling software <p><u>Electronic mail software:</u></p> <ul style="list-style-type: none"> • Email software • Microsoft Outlook • IBM Notes <p><u>Desktop communication software:</u></p> <ul style="list-style-type: none"> • Google Meet • Microsoft Teams • Skype and etc. |
| | Group 4 | Group 4 | Group 4 | Group 4 |
| | <p>Life Science Technicians</p> <ul style="list-style-type: none"> • Agricultural technicians | BSc, MSc | <ul style="list-style-type: none"> • assist agriculture and food scientists in testing agricultural products and food quality • assist in developing and conducting of alternative fertilizer methods to achieve sustainable agricultural processes or practices • identify pests and weeds and assisting in devising and applying environmental-friendly methods of control | <p><u>Specific professional area software:</u></p> <ul style="list-style-type: none"> • Data entry software • Statistical software • SAP and etc. <p><u>Office suit software:</u></p> <ul style="list-style-type: none"> • Microsoft Office <p><u>Internet browser software:</u></p> <ul style="list-style-type: none"> • Web browser software <p><u>Calendar and scheduling software:</u></p> <ul style="list-style-type: none"> • Scheduling software |



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| | | | <ul style="list-style-type: none"> • provide information and advice farmers about ways to improve their crops and livestock productivity and efficiency • analyze production to set up and maintain standards of quality for bio-products • organize and supervise the appropriate farms waste disposal | <p><u>Electronic mail software:</u></p> <ul style="list-style-type: none"> • Email software • Microsoft Outlook <p><u>Desktop communication software:</u></p> <ul style="list-style-type: none"> • Google Meet • Microsoft Teams • Skype and etc. |
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