

Agricultural Biological Tech
Knowledge, Skill, Ability, and Personal Characteristic Statements Rating
Results

| KSAPC # | Knowledge, Skill, Ability, and Personal Characteristic Statement |
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| K01 | Knowledge of the principles of plant growth and cultivation |
| K02 | Knowledge of insect biology |
| K03 | Knowledge of laboratory procedures and pest identification methods |
| K04 | Knowledge of pest control methods, pesticide handling, and application. |
| K05 | Knowledge of standard and advanced laboratory instrumentation. |
| K06 | Knowledge of laboratory safety procedures (e.g. universal precautions, Personal Protective Equipment, spill kits, etc.) to maintain a safe working environment. |
| K07 | Knowledge of Safety Data Sheets and/or pesticide labels. |
| K08 | Knowledge of chemicals and procedures used in diagnostic sample analyses. |
| K09 | Knowledge of plant propagation and plant production. |
| K10 | Knowledge of principles of greenhouse operation and general maintenance. |

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| K11 | Knowledge of greenhouse facilities management (e.g., lighting, irrigation, cooling and heating systems, etc.). |
| K12 | Knowledge of rearing of plant pests and bio-control agents under controlled conditions. |
| K13 | Knowledge of operation and care of sensitive or complex laboratory and/or greenhouse equipment |
| K14 | Knowledge of field plot management |
| K15 | Knowledge of materials and procedures for field test plot work involving plant pests. |
| K16 | Knowledge of computer software programs (e.g., Word, Excel, PowerPoint, Outlook, etc.) for data entry, compiling data, writing reports, and general correspondence. |
| S1 | Skill to establish and maintain cooperative working relationships with those contacted during the course of work. |
| S2 | Skill to operate a personal computer and software (e.g., Word, Excel, PowerPoint, and Outlook) and/or other computerized equipment in order to perform daily duties. |
| S3 | Skill to effectively process, dissect, etc. small to minute plant pests using fine motor skills. |
| A01 | Ability to communicate effectively orally and in writing information in a clear, courteous, professional manner using appropriate tone, vocabulary, and grammar with departmental staff, the public, and other agencies. |
| A02 | Ability to follow and give directions orally and in writing to accomplish day to day activities and ensure a safe and secure working environment. |

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| A03 | Ability to perform repetitive routine and sensitive work with accuracy and precision. |
| A04 | Ability to keep accurate and legible records per Standard Operating Procedures. |
| A05 | Ability to learn complex and varied technical procedures for handling plant pests. |
| A06 | Ability to learn and apply technical work procedures |
| A07 | Ability to analyze situations and take or recommend appropriate action |
| A08 | Ability to act as a working group leader providing instructions and training in a professional and effective manner to share information. |
| A09 | Ability to conduct preliminary examinations leading to plant pest diagnostics. |
| A10 | Ability to use, handle, and care for instrumentation, equipment, supplies, and chemicals including complex sensitive laboratory and/or greenhouse equipment, and safety data sheets. |
| A11 | Ability to construct and use rearing cages or containers and organism collection devices. |
| A12 | Ability to work productively as a member of a team to achieve work goals, and ensure a safe and secure work environment. |
| A13 | Ability to train employees and others in technical tasks necessary for diagnostics, laboratory and workplace safety, pesticide application, screening and identification methods, IIPP, emergency procedures, etc. |
| A14 | Ability to work efficiently to complete assigned tasks within reasonable or specified time periods. |

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| A15 | Ability to use a personal computer to input data, access information, and/or create materials and documents using a variety of software applications. |
| A16 | Ability to be flexible in adapting to changes in priorities, work demands, and other interruptions, which may impact pre-established timelines and courses of action for completing projects and/or assignments. |
| SPC1 | Accuracy, keenness of observation, attention to detail, and perceptiveness. |
| SPC2 | Willing to work in a laboratory and/or greenhouse. |
| SPC3 | Willing to adhere to safety policies and provisions such as wearing protective clothing or gear, protective eye wear, gloves etc. |
| SPC4 | Willing to work in extreme temperature and humidity when working in the greenhouse or in the field. |
| SPC5 | Willing to work with pesticide treated plant material. |
| SPC6 | Willing to work with dusty, moldy, and/or soil covered specimens. |
| SPC7 | Willing to work with genetically modified crop (GMO) materials. |