Duty/Task:								
	PERFORMANCE STANDARDS (Observable & Measurable Criteria)	TOOLS, EQUIPMENT, SUPPLIES & MATERIALS (Needed)	REQUIRED KNOWLEDGE AND SKILLS (Math, Science, & Language)	, ,	to Worker Success) t	DECISIONS (Identify Decisions nat Must be Made by the Worker)	CUES (Identify the Data Needed for Making Correct Decisions)	ERRORS (Indicate What May Result if Incorrect Decisions a Made)
Review soil sample test results 1	Accurately reviewed soil sample results to identify existing nutrient levels in soil.	1 Soil sample test results	Reading skills, basic agronomic knowledge, basic chemistry knowledge	1 N/A	1 Analytical, critical thinker	What do the soil sample results indicate? Do I need to re-test? Do the results compare to previous soil sample results?	Previous soil sample results, levels of micro and macronutrients in soil, pH level	1 Crops won't get the proper nutrients which will lower crop yields, lost revenue, increased disease and pest pressures, la of long-term soil sustainability
Determine appropriate fertility practices and any and amendment(s) that may be needed	Correctly determined appropriate fertility practices and amendment(s) needed for soil or water	2 Soil test interpretation tables	Basic agronomic knowledge, growing practice requirements (e.g., certified organic), knowledge of organic and inorganic fertilizers and lime	2 N/A	2 Discerning, decisive, knowledgeable	What fertilizers/amendments do I need to add? What quantities are needed per acre? What methods of application are required? Do I need any specialized equipment to apply the required fertilizers and amendments?	2 Fertilizers/amendments used, soil test results, crop plan	Crops won't get the proper nutrients which will lower crop yields, lost revenue, increased disease and pest pressures, la of long-term soil sustainability
Determine the appropriate timing to apply the fertilizers and amendments	Determined the correct application timing for fertilizers and amendments	3 Crop plan, calendar	3 Knowledge of crop growth, specific amendment application standards, awareness of weather conditions	3 N/A	3 Detail-oriented, timely, discerning, responsible	When should I apply fertilizer(s) and amendment(s) to a specific crop? How often should the amendments be applied?	Crop planting schedule, fertility requirements for specific crops, weather conditions	3 Fertilizers and amendments applied at the wrong time may leach away and not be availab to the crop when needed, fertilizers applied at the wrong stage of plant growth may damage the crop
Determine amount of amendments to be applied	Determined amount of amendments to be applied	Calculator, sample results, plot/field map, amendment list	4 Algebra, basic chemistry skills	4 N/A	4 Detail-oriented, critical thinker, accurate	What is the rate of application? What is the total amount of amendments that needs applied?	4 Sample results, specific nutrient ratios of amendments	4 Too much or too little fertilizer amendment may waste product or affect crop yields, profits will be affected
Apply the crop-specific amendments/fertilizers	5 Applied crop-specific amendments/fertilizers in the correct amounts at the correct time	5 Scales, PPE, application equipment, field map, amendment list (e.g., which crop, which amendment, amount to be applied)	5 Knowledge of standard/metric measurements, equipment knowledge, fertilizer/amendment knowledge, knowledge of equipment calibration	5 Use caution around equipment	5 Accurate, analytical, timely, hard worker	How much product should I be applying per acre or area? When is the proper time to apply the amendments? What equipment do I need? How do I calibrate the equipment	5 Previous calculations, equipment manual, past experience	5 Won't maximize yields unless the correct amendments are applied in the correct amounts the correct time
Document the application 6	Accurately documented all aspects of the application, including rate per acre, application method, weather conditions, crop and location, cost of total amount applied, vendor information	6 Computer, record book, paper/pencil	6 Computer and record-keeping skills	6 N/A	6 Detail-oriented, conscientious, accurate, organized	What information should I document? Where are the records kept?	6 Records required by various organizations (e.g., Certified Organic, government regulations), SOP	6 Won't have good records to base future applications on, malose organic certification
Monitor crop performance 7	7 Monitored crop performance, noting crop health, density, pests or diseases present	7 Field notebook, pencil, handheld monitoring equipment	7 Knowledge of crop performance, knowledge of disease/pest problems, proper use of monitoring equipment	7 N/A	7 Detail-oriented, analytical. thorough	Is the crop performing as anticipated? What aspects of crop performance should I be monitoring? Why is the crop not performing as anticipated? What are the symptoms that need addressed? How often should I monitor crop performance?	7 Visual observation, past experience	7 Won't know how the crop is performing or responding to the fertilizers and amendments that were applied
Adjust fertility program based on crop performance as needed	Adjusted fertility program based on crop performance as required	8 Calculator, field notes, application equipment, amendment list	8 Knowledge of fertilizers and amendments	8 N/A	8 Detail-oriented, critical thinker, accurate, organized	B What adjustments need to be made and for which crops? What indicates a need for adjustments? What amendments are required?	8 Visual observation, crop yields, inferior plant condition	8 Poor crop development, low cruyields, lost revenue, increased disease and pest pressures, la of long-term soil sustainability
of fertility program for current season/year (e.g., single crop/double crop)	Reviewed effectiveness of fertility program for current season/year (e.g., single crop/double crop)	9 Fertilizer records, crop yield records	Analytical skills, basic crop knowledge, crop production knowledge	9 N/A	accurate, organized	Were there any problems? What was the cause of any problems? Did I reach my yield goals? Was the fertility program cost effective? What's the overall soil/water condition?	crop quality, increased net profit/losses, soil condition, crop variety	Won't be able to plan next season's fertility requirements without a thorough assessment of this year's effort
program for following	Planned an achievable, realistic crop-specific fertility program for following season/year	10 Field notes, production records, soil test results, fertilizer price/availability lists	10 Analytical skills, basic crop knowledge, planning skills	10 N/A	10 Conscientious, deliberate 1	What changes to the fertility program need to be made? What is my crop rotation plan? What amendments will be needed based on the planned	10 Crop yields, field performance, crop quality, increased net profit/losses, soil condition, crop variety	10 Won't be able to maximize yiel based on planned crop rotation which will affect revenue and profits
season/year						crop rotation? What cover crops will I use? What do new soil tests indicate?		
Analyst: Susan Pavilkey			Specific Relevant References:			will I use? What do new soil tests		
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