STANDARD TASK ANALYSIS FORM

6/2/2011

	Duty/Task:																		
	G-18 Determine nutrient supplement requirements		NOTE: This task is focused on *micronutrient* deficiencies as opposed to *macronutrient* deficiencies																
	STEPS (Required to Perform the Task)		**PERFORMANCE STANDARDS (Observable & Measurable Criteria)**		**TOOLS, EQUIPMENT, SUPPLIES & MATERIALS (Needed)**		**REQUIRED KNOWLEDGE AND SKILLS (Math, Science, & Language)**		**SAFETY (Concerns)**		**WORKER BEHAVIORS (Important to Worker Success)**		**DECISIONS (Identify Decisions that Must be Made by the Worker)**		**CUES (Identify the Data Needed for Making Correct Decisions)**		**ERRORS (Indicate What May Result if Incorrect Decisions are Made)**	
1	Scout the fields and visually observe plants for symptoms of nutrient deficiency	1	Scouted fields thoroughly to observe for possible nutrient deficiencies	1	Gator or ATV	1	Knowledge nutrient deficiencies in specialty crops, driving skills	1	Drive carefully	1	Observant, attentive, timely, knowledgeable	1	Does the crop show signs of nutrient deficiencies? Which one(s)? Which micronutrients are most likely to be deficient in the crop being grown?	1	Observations	1	Won't know if any nutrient is deficient that would limit crop yields
2	Take a soil sample and send it to a reputable lab for analysis	2	Sent a representative soil sample to a reputable lab for testing	2	Soil sampler, bucket, bags	2	Knowledge of proper soil sampling techniques	2	N/A	2	Accurate, conscientious, timely	2	Did I get a representative soil sample? How much soil do I send to the lab? What test(s) do I request?	2	Extension bulletins, lab sampling guidelines	2	Won't get a reliable test result
3	Review lab results to confirm if there is any nutrient deficiency	3	Analyzed lab results accurately to identify any micronutrient deficiencies	3	Lab report and recommendations	3	Knowledge of plant nutrition needs, knowledge of specialty crop requirements, analytical skills	3	N/A	3	Analytical, accurate	3	Does the soil test reveal any nutrient deficiencies? If so, which one(s)?	3	Soil test results, crop nutrient requirements	3	Won't correctly determine nutrient supplement requirements
4	Determine what supplemental fertilizer should be applied and at what rate	4	Accurately determined supplemental nutrient requirements and rates to correct identified deficiencies	4	Extension publications, specialty crop textbooks	4	Knowledge of plant nutrient requirements for crop being grown, knowledge of supplemental fertilizers and their analyses	4	N/A	4	Decisive, accurate, knowledgeable, timely	4	What supplemental fertilizer should be applied to correct the deficiency? Is the pH OK? What rate should be applied?	4	Soil test results, type of fertilizer	4	Won't correct deficiencies which will likely reduce crop yields
	Analyst: John Moser						Specific Relevant References:												
	Expert Workers:					1	Extension publications												
	Al Welch					2	Specialty crop textbook												
	Milan Pajev																		

PSI Site Supervisor