Duty/Task: G-3 Plant bulbs/tubers (e.g.								
onion, potatoes, garlic)								
EPS (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 a Made)
MECHANICALLY:								
Obtain bulbs/tubers for the variety you want to grow	Obtained the correct bulbs/tubers for planting	1 Purchase order, phone 1	Knowledge of varieties	1 N/A	Discerning, selective, accurate, decisive, timely	What varieties should I plant? What do consumers want? What is a reasonable price to pay? How much should I purchase? Am I growing organic?	Consumer demand, growing conditions, budget, what's available, organic vs. non- organic approach	Won't be able to grow the crop we want, variety may not be adaptable to our environment
Prepare the tuber for planting by cutting larger planting stock into pieces with eyes	2 Prepared planting stock by cutting larger stock into pieces with eyes	2 Knife, mechanical potato cutter 2	Knowledge of varietal propagation, mechanical knowledge	2 Avoid cuts to fingers or hands	2 Safety minded, efficient, careful	2 How big do the individual pieces need to be? How do I cut them to ensure enough eyes for propagation?	Size the planter cups can accommodate, rule of thumb of having 1-2 eyes per cut piece	Tubers may not fit planter cup- pieces will not grow without eyes
Adjust planting depth on planter	3 Adjusted the planter to the correct depth for the tuber or bulb being planted	3 Planter, wrenches, ruler 3	Knowledge of recommended planting depths, mechanical knowledge	3 Use caution around equipment	3 Accurate, conscientious, problem solver	3 How deep should I set the planting depth? How do I adjust the planting depth? What tools do I need to adjust the planting depth?	3 Variety being grown, owner's manual for planter	Tubers or bulbs planted too deep won't germinate, those planted too shallow will dry out and die
Adjust planting rate on planter	Adjusted the planting rate to apply the correct rate of tubers per foot/acre	4 Planter, wrenches, planting diagram (with planter)	Knowledge of recommended planting rates, mechanical knowledge, knowledge of varietal growing requirements	4 Use caution around equipment	4 Accurate, conscientious, problem solver	4 What is the recommended planting rate per acre? How do I adjust the planter to the recommended planting rate? What tools do I need to adjust the planting rate?	Variety being planted, owner's manual for planter	Plants may be overcrowded or may be too sparse for optimun production
,	5 Adjusted the row width to the proper width for the variety being planted		Knowledge of recommended planting row width, knowledge o cultivator width, mechanical knowledge	5 Use caution around equipment	5 Accurate, conscientious, problem solver	5 How wide should my row width be? How do I adjust the row width on the planter? What tools do I need to adjust the row width?	5 Variety being planted, owner's manual for planter	5 Row width will not match cultivator width, too close may overcrowd plants, too far apart will not optimize production capability
Place bulbs/tubers and starter fertilizer (if non-organic) in separate planter hoppers	6 Added bulbs/tubers and fertilizer (if used) and adjusted fertilizer rate	6 Bulbs, tubers, fertilizer, planter	Knowledge of fertilizer rate for starting crop	6 Use proper lifting techniques	6 Accurate, conscientious, problem solver	6 Which hopper is for fertilizer and which is for tubers? How do I adjust the fertilizer rate on the planter? What tools do I need?	6 Owner's manual for planter	Won't be able to grow the crop we want, yield may be affected if not enough fertilizer is applie over fertilization may lead to crop injury
Plant the bulbs/tubers	7 Planted the bulbs/tubers	7 Planter, tractor 7	Mechanical knowledge, ability to safely operate a tractor	7 Operate tractor safely	7 safety conscious, persistent, accurate	7 How fast should I drive while planting? How far apart should my passes be??	7 Planting marker, type of planter and tractor	Won't have a crop if not plante correctly, yield may be affected may damage the equipment
Water (if needed and if possible) MANUALLY:	8 Added sufficient water if available and if needed	8 Irrigation system 8	Mechanical knowledge, knowledge of how to operate irrigation system	8 Use caution around pumps and high pressure pipelines	8 Accurate, conscientious, problem solver, timely	8 Should I add water or wait for rain? How much should I add? How do I apply the water?	8 Weather conditions, soil conditions, type of irrigation system (if available)	8 New bulbs/tubers won't germinate without adequate so moisture
	9 Obtained the correct	9 Purchase order, phone	Knowledge of varieties	9 N/A	9 Discerning, selective, accurate,	9 What varieties should I plant?	9 Consumer demand, growing	9 Won't be able to grow the crop
variety you want to grow	bulbs/tubers for planting	9 Purchase order, priorie	Knowledge of varieties	9 IWA	decisive, timely	What do consumers want? What is a reasonable price to pay? How much should I purchase? Am I growing organic?	conditions, budget, what's available, organic vs. non- organic approach	we want, variety may not be adaptable to our environment
Prepare the tuber for planting by cutting larger planting stock into pieces with eyes	10 Prepared planting stock by cutting larger stock into pieces with eyes	10 Knife, mechanical potato cutter 1	D Knowledge of varietal propagation, mechanical knowledge	10 Avoid cuts to fingers or hands	10 Safety minded, efficient, careful 1	ŭ	10 Size the planter cups can accommodate, rule of thumb of having 1-2 eyes per cut piece	10 Tubers may not fit planter cups pieces will not grow without eyes
Create a furrow in which to plant the bulbs/tubers	11 Created a furrow of the proper width and depth	11 Hoe, hand cultivator 1	1 Physical stamina	11 N/A	11 Physically fit, conscientious, accurate	1 How will I create a furrow? How wide should it be? How deep should it be?	11 Size of bulb or tuber being planted, available tools	11 Won't have a proper plant bed conducive to germination
2 Place bulbs/tubers in furrow (roots down for bulbs, tubers don't matter)	12 Placed bulbs/tubers at the proper spacing, density and direction	12 Hand 1:	2 Knowledge of varietal planting requirements	12 N/A	12 Physically fit, conscientious, accurate		12 Planting guide, type of crop being planted	12 May produce too many or too few plants per acre if not planted at the correct rate
3 Apply starter fertilizer (if non- organic)	13 Applied high phosphorus (starter) fertilizer at the proper rate	13 Hand, bucket 1:	Knowledge of fertilizer analysis and rates for in-row application	13 Use gloves to protect hands	13 Physically fit, conscientious, accurate	3 What analysis of fertilizer should I use? How do I apply it? How much should I apply?	13 Planting guides, soil tests, available equipment or tools	13 Yield may be affected if not enough fertilizer is applied, ove fertilization may lead to crop injury
		14 Hoe 14	Knowledge of varietal planting	14 N/A	14 Conscientious, physically fit 1	4 How much soil should I cover	14 Varietal requirements	14 Bulbs/tubers may dry out or
fertile 5 Water (if needed and if possible)	fertilizer to the correct depth 15 Added the correct amount of water if available and if soil conditions warranted	15 Irrigation system 1:	requirements Mechanical knowledge, knowledge of how to operate irrigation system	15 Use caution around pumps and high pressure pipelines	15 Accurate, conscientious, problem solver, timely	the tuber or bulb with? 5 Should I add water or wait for rain? How much should I add? How do I apply the water?	15 Weather conditions, soil conditions, type of irrigation system (if available)	may not germinate 15 New bulbs or tubers won't grov
Anglyot: John Massa			Chapifia Dalayest Dafassa					
Analyst: John Moser Expert Workers:		1	Specific Relevant References: Owner's manual for planter					
Al Welch			Extension publications		+			
Milan Pajev			Dealer marketing materials	1 1			1	