

STANDARD TASK ANALYSIS FORM

6/2/2011

Duty/Task:									
G-6 Maintain seedlings (e.g. moisture, temperature)									
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 Irrigate field seedlings when soil becomes dry	1 Applied sufficient irrigation to restore adequate soil moisture	1 Pipes, pump, sprinklers, drip tape, filter, hand tools, soil moisture meter, pressure regulator	1 Knowledge of irrigation methods, analytical skills	1 Be careful around pressurized lines	1 Discerning, analytical, decisive, problem solver	1 Do the seedlings need water? Is it going to rain soon? Am I using the right pressure for the irrigation method? How much water should I apply?	1 Observation, weather forecasts, Soil moisture meter readings	1 Seedlings may get too dry and wilt or die before it rains, applying too much water will create disease conditions or drown out the seedlings	
2 Water if growing mix in greenhouse containers starts drying out	2 Watered container plants as growing mix started drying out	2 Hose, shower head attachment	2 Knowledge of watering requirements for plants, analytical skills	2 N/A	2 Analytical, timely, discerning, conscientious	2 Do the seedlings need water? How much should I water? Is the water temperature in the line too cold?	2 Observation, soil moisture readings, feel of water temperature	2 Seedlings may get too dry and wilt or die, applying too much water will create disease conditions or drown out the seedlings, water that's too hot or cold can injure seedlings	
3 Apply fertilizer to irrigation water if plants need more nutrients	3 Applied correct analysis fertilizer in the correct amounts to irrigation water	3 Fertilizer injector	3 Knowledge of fertilizer types, rates and analyses	3 Wear gloves	3 Analytical, timely, discerning, conscientious, accurate, safety conscious	3 What kind of fertilizer should I apply? What rate? How often?	3 Fertilization plan, visual symptoms such as yellowing or stunted growth, tissue test analysis results	3 Seedlings will not get the nutrients they need to produce maximum yields, seedlings may not survive transplanting	
4 Apply fungicides for disease control or insecticides for pest control if needed	4 Applied the proper fungicide or insecticide in the correct amount to control identified pest(s)	4 Fungicide or insecticide	4 Knowledge of fungicide or insecticide application methods and rates	4 Wear required PPE	4 Analytical, timely, discerning, conscientious, accurate, safety conscious	4 Is a fungicide or insecticide needed? If so, which one(s) should I use? What rates? What application method?	4 Pest control plan, symptoms observed, type of pest or disease	4 Seedlings may succumb to disease or pests, pests may move to the field with transplants	
5 Apply frost protection measures in field as needed	5 Applied appropriate frost protection measures in a timely manner	5 Row covers, overhead irrigation system, low tunnels, wind fans, propane heaters	5 Knowledge of frost protection methods	5 Wear appropriate clothing	5 Discerning, analytical, decisive, problem solver, proactive	5 Is a killing frost imminent? What method should I use? How soon do I start implementing the protective measures?	5 Weather forecasts, ground level temperatures, dew points, available protection methods	5 May lose seedlings to frost, will not have a crop to sell	
6 Adjust greenhouse temperatures as needed	6 Adjusted greenhouse temperatures to optimize plant growth	6 Thermostat, heaters	6 Knowledge of optimal plant temperature requirements	6 Be careful using heaters	6 Discerning, timely, accurate	6 Is the greenhouse temperature too high or too low? How do I change the greenhouse temperature?	6 Thermometer readings, thermostat location	6 May have plant damage or retarded growth or overgrown seedlings	
Analyst: John Moser			Specific Relevant References:						
Expert Workers:									
Al Welch									
Milan Pajev									