

STANDARD TASK ANALYSIS FORM

6/2/2011

Duty/Task:									
G-20/21 Build/install trellises/stakes									
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)	
TRELLISES									
1 Obtain plans/drawings for trellis you wish to build	1 Obtained plans/drawings for the trellis	1 Extension publications on building trellises, phone, email, computer, Internet	1 Basic construction knowledge, planning skills, computer skills, knowledge of county extension office	1 N/A	1 organized, accurate, creative	1 Where do I get my plans? What type of trellis would work best for my situation? How has this style worked for other growers of similar crops?	1 County extension publications/agents, experience, other growers	1 Won't be able to build a useful trellis to meet our needs	
2 Obtain materials needed to construct trellis	2 Obtained all required materials to construct the trellis according to plans	2 Posts, wire, hand tools, support anchors, brads, wire cutters, crimpers, sleeve, spring tighteners, concrete mix	2 Basic construction knowledge, knowledge of building materials, planning skills	2 Make sure to obtain PPE (gloves, eye protection)	2 thorough, accurate, detail oriented	2 What materials do I need to build my trellis? Where do I get them? What quantity of materials do I need? Can I substitute other materials I may already have?	2 Building plans, other growers, knowledge of local hardware/building supply stores	2 Won't have what we need to build the trellis, may have to make multiple trips to the store which wastes time and money	
3 Dig the holes for the posts that the trellis will be attached to	3 Dug holes to a proper depth (3') and diameter	3 Post hole digger, tape measure, shovel, power auger	3 Knowledge of post construction	3 Use PPE, be careful with power auger	3 safety-oriented, hardworking, persistent, strong	3 How many holes do I need to dig? How deep should they be? Should I use a manual post hole digger or a power auger?	3 Building plans, desired length of the trellis, available time and help	3 Won't be able to install our anchor posts to support the trellis	
4 Install the main support posts	4 Installed the main support posts to the desired depth and anchored them, if necessary, in concrete	4 Posts, concrete mix, level, tape measure, spud bar	4 Knowledge of post construction	4 Use PPE	4 safety-oriented, hardworking, persistent, strong	4 How many support posts do I need to install? Do any need to be anchored in concrete? If so, which ones?	4 Building plans, desired length of the trellis, available time and help	4 Won't have anything to attach support wires to	
5 Install the anchors at either end (may twist into the ground or be anchored in concrete)	5 Installed the anchors at either end of the trellis, if necessary, in concrete, or by twisting them into the ground	5 Concrete mix, crow bar, shovel, post hole digger, tape measure, power auger	5 Knowledge of post construction	5 Use PPE	5 safety-oriented, hardworking, persistent, strong	5 How deep should I make the anchors? Should I use the twist kind, or should I mount them in concrete?	5 Building plans, available time and help, availability of anchors locally	5 Trellis may not be able to support weight of plants and will collapse	
6 Install the support wires (usually 3-4 per trellis)	6 Installed the support wires at uniform height across all the support posts	6 Wire cutters, crimpers, brads, wire, hammer, sleeves	6 Knowledge of fence construction	6 Use PPE	6 Conscientious, accurate, productive	6 How many support wires do I need to install? How far apart should they be?	6 Building plans, experience	6 Won't have enough support wires to support the plants as they grow	
7 Install the anchor wires at both ends of the trellis	7 Correctly installed the anchor wires at both ends of the trellis	7 Wire cutters, crimpers, brads, wire, hammer, sleeves, lightener	7 Knowledge of fence construction	7 Use PPE	7 Conscientious, accurate, productive	7 How do I attach the anchor wires to the posts? How are the anchor wires attached to the anchor in the ground?	7 Building plans, experience	7 Trellis may not be able to support weight of plants and will collapse	
8 Tighten the support wires	8 Tightened the support wires sufficiently to make the support wires taunt across the posts	8 Lightener, crimpers, sleeves, ratchet wrench	8 Knowledge of fence construction	8 Use PPE	8 accurate, conscientious, careful, safety oriented	8 How do I tighten the wires? How much do I tighten them?	8 Tautness of support wires	8 Support wires won't be taunt and will sag under the weight of the plants as they grow	
9 As the plants grow, attach the main plant and laterals to the support wires	9 Attached plants and laterals carefully to newly installed trellis	9 Plants, trellis, branch locks	9 Knowledge of the plants being supported	9 N/A	9 conscientious, persistent, determined, patient	9 How do I attach the plants to the trellis?	9 Experience, stage of growth the plant is currently in	9 Plants won't be supported by the trellis	
STAKES									
10 Obtain the stakes that will support the tomatoes	Obtained/constructed sufficient tomato stakes (plastic, wood, metal)	Stakes, purchase order	Knowledge of tomato plant growth, knowledge of types of stakes available	N/A	patient, accurate, timely, cost conscious	What kind of stakes should I buy? Can I make them? How many do I need? Where can I get them?	Experience, available materials, knowledge of local hardware/building supply stores	Won't be able to support tomato plants	
11 Install the stakes in the ground	Drove the stakes into the ground to sufficient depth to make them sturdy	Stakes, hammer, post driver (if steel posts)	N/A	Use care with hammer	conscientious, determined, timely	How do I install the stakes in the ground? What tools do I need to install them?	Type of stakes used, experience	Won't be able to support tomato plants	
12 Attach the string to the stakes	Attached the string by wrapping it around the stakes to support the plants as they grow	String	N/A	N/A	timely, accurate, thorough	How do I attach the string to the stakes? How much string do I need? What type of string should I use?	Experience, other growers, stage of growth of the tomato	Won't be able to support tomato plants	
Analyst: John Moser			Specific Relevant References:						
Expert Workers:			1 Extension bulletins						
Al Welch									