STANDARD TASK ANALYSIS FORM

6/2/2011

PSI Site Supervisor

Analyst: John Moser

Agent Workers: 1 Extension References

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 (Identity Decisions that Must be Made by the Worker)

Cost (Identity the Data Needed for Making Correct Decisions)

Endnote (Indicate What May Result if Incorrect Decisions are Made)

1. Obtain plans/drawings for the trellis you wish to build
   - Obtained plan/drawings for the trellis
   - Extension publications on building trellises, phone, email, computer, internet
   - Basic construction knowledge, planning skills, computer skills, knowledge of county extension office
   - N/A
   - Organized, accurate, creative
   - Where do I get my plants? What type of trellis would work best for my situation? How has this style worked for other growers of similar crops?
   - County extension publications/agents, experience, other growers
   - Won't be able to build a useful trellis to meet our needs

2. Obtain materials needed to construct the trellis
   - Obtained all required materials to construct the trellis according to plans
   - Posts, wire, hand tools, support anchors, braces, wire cutters, crimpers, sleeves, spring tighteners, concrete mix
   - Basic construction knowledge, knowledge of building materials, planning skills
   - Make sure to obtain PPE (gloves, eye protection)
   - Thorough, accurate, detail oriented
   - 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?
   - Building plans, other growers, knowledge of local hardware/ building supply stores
   - 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
   - Dig holes to a proper depth (3') and diameter
   - Post hole digger, tape measure, shovel, power auger
   - Knowledge of post construction
   - Use PPE, be careful with power auger
   - Safety-oriented, hardworking, persistent, strong
   - How do I know if I need to dig deeper? How deep should they be? Should I use a manual post hole digger or a power auger?
   - Building plans, desired length of the trellis, available time and help
   - Won't be able to install our anchor posts to support the trellis

4. Install the main support posts
   - Installed the main support posts to the desired depth and anchored them, if necessary, in concrete
   - Posts, concrete mix, level, tape measure, spud bar
   - Knowledge of post construction
   - Use PPE
   - Safety-oriented, hardworking, persistent, strong
   - How many support posts do I need to install? Do any need to be anchored in concrete? If so, which ones?
   - Building plans, desired length of the trellis, available time and help
   - 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)
   - Installed the anchors at either end of the wall, if necessary, in concrete, or by twisting them into the ground
   - Concrete mix, core bar, shovel, post hole digger, tape measure, power auger
   - Knowledge of post construction
   - Use PPE
   - Safety-oriented, hardworking, persistent, strong
   - How deep should I make the anchors? Should I use the twist kind, or should I mount them in concrete?
   - Building plans, available time and help, availability of anchors locally
   - Trellis may not be able to support weight of plants and will collapse

6. Install the support wires (usually 14-16 per trellis)
   - Installed the support wires at uniform height across all the support posts
   - Wire cutters, crimpers, brads, wire, hammer, sleeves
   - Knowledge of fence construction
   - Use PPE
   - Consistent, accurate, productive
   - How many support wires do I need to install? How far apart should they be?
   - Building plans, experience
   - Won't have enough support wires to support the plants as they grow

7. Install the anchor wires at both ends of the trellis
   - Installed the anchor wires at both ends of the trellis
   - Wire cutters, crimpers, brads, wire, hammer, sleeve, lightener
   - Knowledge of fence construction
   - Use PPE
   - Consistent, accurate, productive
   - How do I attach the anchor wires to the posts? How are the anchor wire attached to the anchor in the ground?
   - Building plans, experience
   - Trellis may not be able to support weight of plants and will collapse

8. Tighten the support wires
   - Tightened the support wires sufficiently to make the support wires taut across the trellis
   - Lightener, crimpers, sleeves, lightener wrench
   - Knowledge of fence construction
   - Use PPE
   - Accurate, consistent, careful, safety-oriented
   - How do I tighten the wires? How much do I tighten them?
   - Tautness of support wires
   - Support wires won't be taut 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
   - As the plants grow, attach the main plant and laterals to the support wires
   - N/A
   - Knowledge of the plants being supported
   - Use PPE
   - Consistent, persistent, determined, patient
   - How do I attach the plants to the trellis?
   - Experience, stage of growth of the plant is currently in
   - Experience

10. Attach the stakes that will support the tomatoes
    - Attached/conducted sufficient tomato stakes (plastic, wood, metal)
    - Stake, purchase order
    - Knowledge of tomato plant growth, knowledge of types of stakes available
    - Use PPE
    - Skilled, 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
    - Drive the stakes into the ground to sufficient depth to make them sturdy
    - Stake, hammer, post driver (if wood posts)
    - Use care with hammer
    - Consistent, 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
    - Attach the string by snapping it around the stakes to support the plants as they grow
    - String
    - Use care
    - Skilled, 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