

## EcoSort TASK ANALYSIS-Final

Task being analyzed: Properly recycling items in the home (from the point of view of the user).

Start of Process: Item is finished being used that needs to be disposed of.

End of Process: Bringing back in large recycling bins after recycling for week has been completed.

- I. Finish using product (AC)
  - II. Decide to dispose of product (DE)
  - III. User takes image of product using EcoSort app (AC)
  - IV. Machine identifies product (AN)
  - V. Capture knowledge of what is and is not recyclable (will be location dependent) (DA)
  - VI. Decide if recyclable (AN)
    - a. If Yes
      - i. Proceed to Step VII. (AC)
    - b. If No
      - i. Throw out in trash (assuming composting and electronics disposal are not being considered) (AC)
      - ii. Proceed to Step XI (AC)
  - VII. Have data about what needs to be rinsed before being recycled (DA)
  - VIII. Decide if product needs to be rinsed (DE)
    - a. If Yes, rinse product (AC)
    - b. If No, proceed to next step (AC)
  - IX. Take product to disposal area for recyclables in the home (AC)
  - X. Acquire knowledge of what is proper recyclable form (DA)
  - XI. Decide what is proper recycling form of product (AN)
  - XII. Determine if product will fit into recycling receptacle (AN)
    - a. If Yes, put inside recycling receptacle (AC) then put product into proper recycling form (AC)
    - b. If No, Put product into proper recycling form (AC) then put into designated other location (for example, put a large box behind the recycling bin) (AC)
  - XIII. If bin (or trash) is full, proceed to next step. Otherwise, return to Step I.
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- XIV. Take trash and/or recycling out of home into whatever is the outdoor disposal storage (ex: trash bin and recycling bin) (AC)
  - XV. Replace trash/recycling bags in home. Return indoor recycling bin to appropriate location. (AC)
  - XVI. Know if user is responsible for bringing trash bins and recycling bins to the curb (DA)
    - a. If Yes, go to Step XIII.
    - b. If No, skip to Step XVI.
  - XVII. Figure out when and where to bring bins out (DA)
  - XVIII. Figure out when/where you are related to that day/location (AN)
  - XIX. Bring bins to appropriate location 1 day before the bins are supposed to be collected (AC)
  - XX. Know if user is responsible for bringing trash bins and recycling bins in from curb (DA)
    - a. If Yes, go to Step XVIII

- b. If No, task is done
- XXI. Figure out when and where to bring bins in (DA)
- XXII. Figure out when/where you are related to that day/location (AN)
- XXIII. Bring bins to appropriate location after the bins have been emptied (AC)

## Task Classification



Data



Analysis



Decision



Action