

Faucet Assembly

This is a complex task requiring exact sequencing, tool use, and good hand strength.



Materials

- 12 bases (A)
- 12 threaded rods (B)
- 12 soft washers (C)
- 12 nuts (D)
- 12 handles (E)
- 12 screws (F)
- 1 screwdriver (G)
- 1 large bin
- 2 small bins
- 1 3-compartment bin
- 1 red storage bin



Assembled faucet

Setup

Place the large bin with the bases on the table to the left. Place the two small bins with the threaded rods and washers in the middle. Place the 3-compartment bin with the nuts, handles and screws to the right. Place the screwdriver in front. Place the empty red storage bin nearby within reach on the table or on a chair.

Procedure

- Take a base (A) and a threaded rod (B). Screw the rod into the base.
- Take a soft washer (C). Slide the soft washer over the rod and slide down to the base.
- Take a nut (D). Slide the nut over onto the rod and screw down until snug. (about 5 turns)
- Take a handle (E). Place the handle on the end of the rod.
- Take a screw (F). Insert the screw into the handle and turn once by hand.
- Take the screwdriver (G). Tighten the screw until the handle is secure (about 12 turns).
- Place the assembled faucet unit into the red storage bin.
- Repeat all previous steps with the remaining faucet pieces.

Norms:

Per unit – 35 seconds
Per task (12 units) –
7 minutes

Quality Criteria

All pieces must be assembled in the correct order and fit snugly, but not so tight that disassembly is difficult.



Faucet Disassembly

Setup

Arrange the materials as in the assembly task.

Procedure

- Take an assembled faucet in one hand.
- Take the screwdriver with the other hand. Loosen the screw (about 2 turns). Do not allow the screw to fall out of the assembly.
- When the screw is loose, put down the screwdriver. Take the screw and place it in the left compartment of the 3-compartment bin.
- Remove the handle and place it in the center compartment of the 3-compartment bin.
- Unscrew the nut. Place it in the left compartment of the 3-compartment bin.
- Unscrew the threaded rod and remove from the base.
- Place the base in the large bin to the left.
- Remove the soft washer from the threaded rod.
- Place the software washer in the small bin on the right in the center.
- Place the threaded rod in the small bin on the left in the center.
- Repeat all previous steps with the remaining faucets

Norms:

Per unit – 35 seconds
 Per task (12 units) –
 7 minutes

Quality Criteria

All pieces must be fully disassembled and placed in the correct bins and compartments.