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## The Leaking Crate

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*This drill allows Hazmat technicians to practice hand manipulative skills using tasks that simulate repair or replacement of a common flange. It involves team competition and tests teamwork and dexterity.*

**Cost of Drill:** \$ (\$100, depending on type of materials)

**Time Required:** 15 minutes

### Teaching Points

The participants will show good working practice of the following. Individuals can be timed for competition.

1. Staying out of the product as much as possible
2. Staying off the knees
3. Communicating with his or her partner (optional)
4. Determining what tools are needed

### Materials List

- 2 to 4 milk crates (or recycle totes) with sides cut out
- 2, 2-inch PVC or galvanized steel pipes
- 2 flange heads
- 1 gasket for flange
- 4 bolt washers and nuts
- 2 garden hoses
- 1 garden hose connection attached to 1 end of the flange
- 1 mini garden hose manifold with 1 intake and 4 discharges
- A square flat surface for bottom of crate (Plexiglass, wood, or other material)
- 2 wrenches matching the size of the bolts for each crate
- Level A suits
- SCBA
- Boots

### Setup Directions

Locate hose bib. Run 1 garden hose to the manifold. Extend 2 garden hoses to the 2 leaking crates to 1 end of flange. Have nuts, bolts, and washers sitting in bottom of crate with tools sitting to side of crate. Two participants start at same time.



### **What Should Happen During the Drill**

Participants will go against each other for time. The participants will show good working practices, such as staying out of product as much as possible, staying off knees, and communicating with partner (optional) what tools are needed.

### **Comments**

This drill allows for team competition and dexterity practice.