

## LN<sub>2</sub> for OPEN TOP VESSELS SOP (NOT FOR DEWARs)

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**NOTE:** ALWAYS wear PPE when working with LN<sub>2</sub>.

**Before filling your vessel, you MUST do the following:**

1. Wear long pants.
2. Have a buddy. No one is permitted to fill a vessel alone.
3. Scan your entry card for the number of vessels you are filling.
4. Remain with the vessel to be filled at all times during the fill process.
5. Wear the provided PPE before starting the fill process. PPE consists of a face shield, hearing protection and blue cryogenic gloves.

### **FILLING PROCEDURE**

1. Make sure that the diffuser is on the end of flex line. If it is not there, contact MNTC staff immediately. **DO NOT FILL A VESSEL WITHOUT THE DIFFUSER.**
2. Place the flex line on the concrete away from your body.
3. Open the small valve on the fill line.
4. Open the larger valve by the LN<sub>2</sub> tank.
5. Wait for a flow of LN<sub>2</sub> to exit from the diffuser to prime the line with LN<sub>2</sub>.
6. Turn off the small valve on the fill line.
7. Place the flex into the top of your vessel.
8. Open the small valve on the fill line and fill the dewar to your desired level.
9. When finished close the small valve on the fill line.
10. Close the large valve on the LN<sub>2</sub> tank, but **DO NOT OVERTIGHTEN.**
11. Place flex end on concrete and away from your body.
12. Open the small valve on the fill line to purge remaining LN<sub>2</sub> in the line. Keep the line open until you hear a high pitched whine.
13. Close the small valve, but do not overtighten.
14. Place the PPE back into the provided box and close the lid on the box.