



## Centrifugal Overhaul Safety Outline

- I. To Safely Disassemble and Reassemble a Centrifugal Compressor
  - A. Refrigerant Recovery
    1. Use EPA approved recovery equipment
    2. Wear proper personal protective equipment, (PPE)
      - a. Butyl gloves
      - b. Butyl boots
      - c. Goggles
    3. Ensure proper ventilation is available and working.
    4. Have hazardous spill containment equipment available.
    5. GFCI on power source for all power equipment being utilized.
    6. Current first aid kit available.
  - B. Erection of Gantry
    1. Do not exceed weight during lifting that can be lifted by using legs; never use back to lift.
    2. Ensure that all bolts and fasteners are securely tightened.
    3. Ensure trolleys and chain falls are of sufficient weight ratings for objects to be picked up/lifted.
    4. Inspect all rigging for:
      - a. Frayed chokers
      - b. Bent eyebolts, guide bolts, and or shackles (Discard any rigging gear that appears damaged.)
    5. Keep work area around gantry clear so gantry may be moved safely without toppling over.
    6. When disassembling compressor, ensure you always have a square pick.
      - a. One Person only to direct picks and movement at all times.
      - b. Move slowly with trolleys and never allow any part of body under load.
      - c. Improper pick angles can lead to gantry toppling, personal injury and damage.
      - d. All heavy compressor components to be set off floor, laid flat, if possible, and always blocked and secured.
      - e. Cleanliness of work area to be maintained at all times.
      - f. All cleaning of compressor parts to be done with user-friendly cleaning solutions and proper PPE; refer to cleaner MSPS for PPE.
      - g. During reassembly of compressor, all previous safety rigging procedures to be followed.
      - h. Tear down of gantry and clean up procedures to be done in the manner of previous setup safety guidelines.