Welding Shop Safety Inspection Checklist

Inspector Name: _____ Date: _____

Location/Shop: _____

General Facility & Supervision

[ ] **Instructor:** present in the shop anytime a student is present.
[ ] **Forklifts:** not operated by students; keys are stored in a locked box (not in the ignition).
[ ] **Equipment (especially top-heavy items):** secured/anchored to prevent toppling or walking per manufacturer requirements.
[ ] **Equipment:** good working condition with guards and housing.
[ ] **Proper working clearances are maintained**
[ ] **Combustible items:** kept at least 35 feet away from hot work operations (welding, cutting, grinding, etc).
[ ] **Cutting on drums or containers previously used to store fuel gases (or of unknown previous use) is strictly prohibited.**
[ ] **Current projects are stored securely.**
[ ] **Emergency exits and the routes:** identified and clear.

Personal Protective Equipment (PPE)

[ ] **Signs:** posted at each entrance.
[ ] **Safety Data Sheets (SDS)**
[ ] **OSHA-compliant eyewear**
[ ] **Proper welding hood equipped with correct lenses:** worn for welding. Safety glasses must be worn underneath welding hoods and face shields.
[ ] **Hearing protection:** available and used.
[ ] **Respirators:** cleaned, stored, and worn when required .
[ ] **Welding gloves/gauntlets:** worn for cutting, grinding, welding, or handling hot/sharp metals.
[ ] **Gloves:** prohibited when working around moving machinery that poses a snag hazard.
[ ] **Protective clothing:** consists of cotton, a leather welding apron/jacket, and leather boots.

Safe Work Practices & Housekeeping

[ ] **Signage and training regarding safe work practices:** active.
[ ] **Jewelry:** removed
[ ] **Hair:** tied back.
[ ] **Horseplay:** prohibited.
[ ] **All injuries, near misses, and equipment damage are reported immediately to the instructor.**
[ ] **Exits:** clear.
[ ] **Tools and scrap metals are not left on the floor.**
[ ] **Oils are wiped from the floor immediately; floor absorbents are disposed of per EPA/DEQ requirements.**
[ ] **Catch bins:** not overflowing with shavings or oils.
[ ] **Soiled rag bins:** emptied , not overloaded, and no regular trash.

Emergency Equipment

[ ] **First aid kit/ Stop The Bleed kit:** available.
[ ] **Eyewash station and emergency shower:** clean, unobstructed, activated weekly and working .
[ ] **Eyewash/shower:** inspection log present at the station.

Power & Electrical

[ ] **Emergency stop button:** available and labeled.
[ ] **Equipment:** positive on/off switch or stand-alone electronic device.
[ ] **Stationary equipment:** plugged into a permanent power source.
[ ] **Equipment cords:** intact.
[ ] **Extension cords:** grounded, good repair, only as temporary power, no tripping hazards.
[ ] **Cords:** not run through doorways, windows, or walls.
[ ] **Power panel fronts are secure:**(all openings covered by breakers/blanks) and all breakers are labeled.

Ventilation & Environmental Controls

[ ] **Ventilation system:** proper flow (100 fps) to pull vapors away from the user.
[ ] **Bins:** emptied .
[ ] **No open/unused ventilation tubes are left active at empty workstations.**
[ ] **Documentation:** present showing inspection and cleaning frequency of the ventilation system.
[ ] **Plasma arc cutter:** equipped with a ventilation hood, down draft, or a cutting table with water filtration.
[ ] **Floor drains: either** connected to the sewer or equipped with an approved oil-water separator/tight tank.

Flammable Storage & Chemicals

[ ] **Flammable/combustible liquids:** never stored or used near hot work operations.
[ ] **Flammables exceeding 25 gallons:** stored in a rated flammable storage cabinet.
[ ] **Flammable storage cabinets:** not loaded past capacity.
[ ] **Flammable liquids:** kept in properly rated cabinets.
[ ] **SDS:** complete and available.
[ ] **Chemicals:** stored in original containers with proper lids and original manufacturer's labels.

Compressed Air

[ ] **Limiting device restricts pressure < 30 PSI.**
[ ] **No PVC/CPVC piping.**
[ ] **Compressed air:** never used for cleaning workstations or blowing off clothing/people.
[ ] **Hoses:** good repair, coiled, and stored organized.