# Tier 2 – Lab Safety Self-Assessment Checklist

| **Lab Safety Management** | **Yes** | **No** | **NA** |
|---|---|---|---|
| The Lab Safety Plan is available, and has been completed, updated, and signed. | | | |
| The required safety training for lab personnel are completed. | | | |
| The lab door signage is current and posted. | | | |
| Tier 1 assessments are completed regularly. | | | |
| SOP address hazards in the lab are available. | | | |
| PPE is available and appropriate for experimental risks. | | | |
| **Emergency Readiness** | **Yes** | **No** | **NA** |
| There is a chemical spill kit available, in an accessible location and with adequate quantities. | | | |
| Eyewashes are accessible and being tested by the lab on a weekly basis. | | | |
| The safety shower is accessible and not blocked. | | | |
| A first aid kit is available and complete. | | | |
| Specific Measures - Hazard specific readiness is in place (biohazard spill kit, mercury spill kit, HF spill kit, calcium gluconate). | | | |
| Fire extinguishers are selected for the types of combustibles and flammables in the areas where they are to be used and inspected regularly. | | | |
| The lab has held one emergency drill in the past year and kept a record of it.<br>Note: this question will not trigger an action | | | |
| **Lab Safety Facilities** | **Yes** | **No** | **NA** |
| The service and circulation corridors are accessible, organized, in good condition, with no excess storage. | | | |
| Egress in service and circulation corridor is adequate (at least 1.5 meters clearance). | | | |
| Floors are clear, with no slip, trip, or fall hazards. | | | |
| Hazardous waste that is stored, is at a designated SAA location, sealed and tagged with an HSE-approved label. | | | |
| Gas cylinders that are in the service corridor, are safely stored/used (away from heat, electrical or ignition sources, secured, capped, segregated etc.). | | | |
| Toxic gases are stored and used in gas cabinets or ventilated enclosures. | | | |
| Chemical storage in the service corridor is appropriate (cabinets in good order, storage of flammable adequate, chemicals segregated). | | | |
| Cryogenic materials are handled and stored properly. | | | |
| Electrical safety devices (GFCI, circuit breakers, fuses) are being used where appropriate. | | | |
| **Experimental Safety** | **Yes** | **No** | **NA** |
| Biosafety cabinets, fume hoods, glove boxes, laminar flow hoods and other safety engineering controls are functioning and ready for operations. | | | |
| Biological research is conducted following good microbiological practices and appropriate controls and signage for biohazards are in place. | | | |
| Copies of Radiation Use Authorization approval letter, SOP, and local safety rules are available for all authorized users inside the lab and appropriate signage is in place. | | | |
| SOPs are available for the use of Class 3B and Class 4 lasers and appropriate signage is in place. | | | |
| Storage areas inside the laboratory are clean and organized (fridges/freezers, cabinets, shelves, etc.). | | | |
| High/multi-use areas/instruments are clean and organized (sinks, scales, FH, enclosures, benches). | | | |
| There are no small residue/small spills present in the lab area. | | | |
| Egress within the lab space is adequate (at least 1.5 meters clearance). | | | |
| Chemicals are used in a safe manner (in fume hoods, with sash closed, or in ventilated enclosure, rotavapor are taped, PPE is used, etc.). | | | |

| Experimental Safety (follow) | Yes | No | NA |
|---|---|---|---|
| Sharps are managed in a way that minimizes exposure. | | | |
| Gas cylinders inside the laboratory in use are properly installed, secured, with adequate manifold, etc. | | | |
| All chemical containers are labeled correctly. | | | |
| Chemical containers in the lab are staged properly (closed, upright, in stable position, correct conditions, liquids in secondary containers if on the floor). | | | |
| Chemicals are segregated (e.g. no oxidizers with organics, no acids with bases, azides, bleach, cyanides, metals, sulfides). | | | |
| Flammables are stored in a proper flammable rated refrigerator/freezer. | | | |
| Peroxide forming chemical containers are dated when opened and tested regularly (every 6 months). | | | |
| Hazardous waste containers in use are appropriate and clearly labelled. | | | |
| Hazardous waste bags that are currently in use, are only used for disposal of chemically contaminated items (i.e. no sharps, no free liquids, no general waste) and kept in a secondary container. | | | |
| Liquid hazardous waste is in secondary containment (if on the floor) and kept closed when not in use. | | | |
| Broken glass is properly handled and disposed of. | | | |
| The correct type of sharp containers is present where sharps are used, in close proximity to the users and not overfilled. | | | |
| Electrical cords, equipment and installations are approved, installed/configured to minimize damage, away from liquids, overloading of circuits and w/GFCI (where required). | | | |