## ACCESS

- **F** Training requirements: Training must be valid (1) NSLS-II Safety (2) Cyber Sec (3) GSO (4) Other training per SAF (safety approval form) or lab staff.

- **F** Safety Approval Form: Use beamline SAF or lab-only SAF. Significant changes to experiment must be added (new users, equipment, materials added/increased).

- **F** Signs and Placards: Locate and discuss all posted signs and placards (Hazard Info Placard, contact info, PPE)

- **F** Lead experimenter: Lead Experimenter must ensure that safety, training, and reporting requirements are completed.

- **A** Experimental Floor: No access to the experimental floor from the lab unless authorized (GERT, TLD).

## EMERGENCIES

- **F** FLOCO/Control Room: Discuss process to contact a Floor Coordinator (FLOCO, x5046) and the Control Room (x2550) for assistance.

- **F** Lab staff: Discuss process to contact Support Lab Staff for assistance and operations (emergency contact info, phones).

- **F** Emergencies: Discuss where to go and whom to contact during an emergency.

- **F** Exits: Locate routes to nearest exits.

- **F** Fire Ext/alarms: Locate fire extinguisher(s) and fire alarm pull(s).

- **F** Eye wash/ shower: Locate eye wash/shower.

- **F** Spill Station: Locate spill control station (experimental floor).

## LAB EQUIPMENT

- **F** Use Authorization: User must be authorized by lab staff before using support lab space or equipment. Explain which lab equipment user is authorized to use. Locate procedures/manuals/instructions.

- **A** Centrifuge: Do not use unless authorized and trained. Check box when training is complete.

- **L** Glove Box (Argon): Do not use unless authorized and trained. Check box when training is complete.

- **A** Hood (HEPA): Do not use unless authorized and trained. Check box when training is complete.

- **A** Hood (Fume): Do not use unless authorized and trained. Check box when training is complete.

- **L** Oven (Forced-Air): Do not use unless authorized and trained. Check box when training is complete.

- **A** Water Purification Sys: Show location and operation.

## LAB USE

- **F** Follow SAF & ESR: All activity in lab must be described in SAF or ESR (experiment safety review). Review location of SAF & ESR.

- **F** Unattended experiments: Do not leave any ongoing experiments unattended unless cleared by lab CSM. If unattended experiments are allowed, clearly mark your area/experiment with name, contact info, date and brief experiment description.

- **R** No food/drinks in lab: No food or drink allowed in lab.

- **A** PPE: Entering this lab requires safety glasses. For handling materials and chemicals, wear additional PPE (gloves, lab coat, etc) as defined in SAF or ESR.

- **A** PPE (Haz Mat): For handling hazardous material, solvents, wear appropriate PPE (gloves, lab coat, etc) defined in SAF or ESR.

- **A** CMS (Bar Code): Manufactured chemicals require a BN Chemical Management System (CMS) bar code.

- **A** CMS (Empty Containers): When empty, manufactured chemicals' barcodes should be released from the CMS database, and barcode removed from empty containers before disposal.

- **F** Labeling: Chemicals/materials not in original containers need a label with user name, material name, & date. Use NFPA label when possible.

- **A** Computer Software: Do not install any computer software on lab computers.

- **R** Moving/modifying equip: Do not modify or reconfigure any equipment without first asking CSM. Do not move or rearrange lab equipment without first asking CSM. Do not borrow anything from the lab without first asking CSM.

- **A** Hotplates: Do not leave hot plates unattended when energized.

- **A** Cleaning glassware: Users are responsible for washing, rinsing with DI water, and drying all glassware used. All glassware must be returned to the glassware cabinet clean and dry.

- **F** Solvent use: Wear safety glasses and gloves when handling solvents. Keep solvent wash bottles in secondary containers when not in use.

## ESH & HAZARDS

- **E** Lifting: If lifting objects <30 lbs, keep weight close to the body (between shoulders and knees); If lifting objects =/>30 lbs, use lifting and/or mechanical aids or two person lifts.

- **F** Electrical work 50V: No work on exposed electrical components >50V without appropriate electrical training.

- **E** Electrical breaker: In case of power failure, contact the FLOCO or support lab Staff.

- **A** LN2 authorization: Do not use LN2 in lab unless authorized and trained (HP-OSH-025). Check box when training is complete.

- **A** Cryogen use: Wear appropriate PPE when handling cryogens.
**NSLS-II Lab Specific Training 741-1LL09**

**Course Code PS-LAB-741-1LL09**

**Rev Date:** 9/6/2017

<table>
<thead>
<tr>
<th>Task</th>
<th>Instructions</th>
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<tbody>
<tr>
<td>Do not connect regulator, disconnect regulator, or move gas cylinder unless trained (TQ-COMPGAS1) and authorized. Check box when training is complete. Wear appropriate PPE. All cylinders must be secured before removing protective cap.</td>
<td>□ A Gas cylinder auth</td>
</tr>
<tr>
<td>Show location and operation. Use minimum pressure and flow rate needed for use. No pressurizing of closed vessel.</td>
<td>□ A Gas cylinder use</td>
</tr>
<tr>
<td>Show location of taps. N2 taps must not be left open without flow control. Max N2 flow 200 SCFH.</td>
<td>□ A Comp Air/N2 Supplies</td>
</tr>
<tr>
<td>Do not generate hazardous wastes without talking with lab SUPPORT staff. Anyone generating Hazardous Waste must have Lab Standard (HP-IND-220) and Hazardous Waste Generator (HP-RCRIGEN3) training.</td>
<td>□ F Hazardous waste</td>
</tr>
<tr>
<td>Show relevant waste collection areas and discuss training requirements (sharps, razor blades, pipet tips, broken glass, hazardous waste Satellite Accumulation Area/SAA).</td>
<td>□ F Waste Location</td>
</tr>
<tr>
<td>All sharps, including syringe needles, syringe barrels, microscope slides, and scalpels are treated as medical waste. Dispose of in red biohazard container.</td>
<td>□ A Sharps</td>
</tr>
<tr>
<td>All equipment, glassware, chemicals, waste are cleaned up/ put away /properly disposed of.</td>
<td>□ F Housekeeping</td>
</tr>
<tr>
<td>Review with staff whether to store samples or ship back to home institution.</td>
<td>□ A Samples</td>
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<tr>
<td>Review shipping process for hazardous materials.</td>
<td>□ A Shipping</td>
</tr>
<tr>
<td>Follow shutdown procedure for all lab equipment used and inform the staff lab use is complete.</td>
<td>□ A Shut down</td>
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**Instructions to Trainer:** SAF or ESR #

**Instructions to User:**

Ensure that your name and life number are correct. Sign below that you understand and agree to comply with the instructions provided to you in this training.

<table>
<thead>
<tr>
<th>PRINT User Name</th>
<th>Life #</th>
<th>User Signature</th>
<th>Date</th>
<th>Trainer’s Signature</th>
<th>Training Entered</th>
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