

# BeamLine Operations and Safety Awareness (BLOSA) Checklist

BeamlineX17B3

All users must be instructed in operating the beamline safely. Leave checkbox blank if not applicable. Training valid 2 years. Visitors use Visitor/Escort forms.

## ACCESS

- Training - Laser      A If Class 3B or 4 laser is required for experiment, verify laser training and eye exam: [www.bnl.gov/training](http://www.bnl.gov/training)

## EMERGENCIES

- Exits      R Locate routes to nearest exits
- Fire Extinguishers      R Locate fire extinguisher
- Alarm Pulls      R Locate fire alarm pull
- Eye Wash/Shower      R Locate eye wash/shower [For labs without eye wash stations, prop open door if using corrosives]
- Spill Station      R Locate spill control station
- Green/Yellow Boards      R Locate/discuss Green Board (beamline emergency contacts, phones and info) and Yellow Board (safety info)
- Emergency Stop      A Locate emergency stop buttons, review purpose and operation

## CONTACTS

- OPCO      R Refer to instructions posted on the beamline phone for Operations Coordinator (OPCO) Assistance

## BEAMLINE OPERATIONS

- Hutch Interlocks      A Review hutch interlock operations; emphasize that purpose of interlocks is to prevent injury when beam is on
- Enabling Beamline      R Review procedures to enable beamline
- Red & Yellow Tags      R Provide information about any beamline equipment or systems that are yellow or red tagged
- Beamline Config      R Configuration changes to beamline are to be completed by Beamline Staff only
- Power Failure      A Identify circuit breaker location; contact OPCOs to reset circuit breakers
- Air Valves      A Only beamline staff or OPCOs are permitted to adjust air shut-off valves
- Gas Valves      A User may adjust gas shut-off valves (review location and procedure)
- Pink Cards      R Beamline may be unattended up to 24 hours unless SAF states "no unattended operations" (review procedure)

## END STATION / EQUIPMENT

- Computer Ops      R Reminder to review computer operations, control software, data acquisition software
- End Station Config      A Configuration changes to end station equipment are to be completed by Beamline Staff only
- Optics      A Review optical system set up and procedures

## DOCUMENTATION

- Beamline Manuals      R Review location of manuals and beamline documentation (must be readily available)
- Reminders      R Identify location of Experimental Reminders list posted at the beamline

## LAB & TECH AREAS

- Procedures      A Review procedures for use of lab (including request form and PPE) and/or tech space (non-lab) area

## EXPERIMENTAL HAZARDS

- Radiation Hazards      R Identify radiation locations; inform user to move away from area and call control room if chipmunks sound off
- Electrical Work      A No work on exposed electrical components >50V
- Electrical      A Some detectors have high voltage; use caution
- Cryogenics      A Cryogen use at beamline or lab: Review filling, demonstrate use, wear PPE (eye and skin protection)
- Cryogen Fills      A Cryogen Filling Station: Review filling, demonstrate use, wear PPE (eye and skin protection)
- Compressed Gas      A Review use and storage
- Nano Materials      A Verify nano training and, if applicable, review procedures for nano hood and glove box
- Alignment Laser      A Alignment laser is present at this beamline (avoid direct eye exposure)
- Hazard Analysis      R Identify location of beamline hazard analysis form

## ENVIRONMENTAL WASTES

- Disposal - Sharps      A Place cover slips, tips, needles in sharps container

## CLOSE OUT

- Disabling Beam      B Secure the beamline BUT ask beamline staff if the shutter should be disabled
- Housekeeping      A Ensure beamline area is neat, clean, free of hazards

I understand the instructions given to me on beamline operations and safety awareness.

Only these trainers can provide BLOSA for this beamline:

PRINT User Name	Guest #	User Signature	Date	√ UAdm

Zhiqiang Chen       Xinguo Hong

Trainer: Check Box, Sign Here

Date