

COLTRIMS ON-THE-JOB TRAINING

Facts and information you have to know

Date: _____



Instructor	
Name:	Signature:
Guest	
Name:	Signature:

While signing above I declare that I have read and understand the listed information below and that I have taken the appropriate safety classes prior to my participation in the COLTRIMS project (building 2 and/or ALS):

Job Hazard Analysis for COLTRIMS guests:

http://amo-csd.lbl.gov/downloads/JHA_COLTRIMS_Guest.pdf

The online Safety Courses: ENG1001, EHS0010, EHS0056, EHS170, EHS171, EHS0348, EHS0260, EHS0243, EHS0278, EHS0470 plus SEC0201, BLI0919 and (if applicable) the ALS Safety Courses: ALS1001, ALS1005

<http://training.lbl.gov/bltCourses.html>

User Advisory at the ALS:

<http://www-als.lbl.gov/index.php/user-information/safety-for-users/423-how-do-i-determine-what-personal-protective-equipment-ppe-to-wear.html>

Possible safety hazards of the COLTRIMS lab 2-102:

<http://amo-csd.lbl.gov/downloads/LabHazards102.pdf>

Integrated Safety Management (ISM) plan:

<http://amo-csd.lbl.gov/downloads/Perform%20Integrated%20Safety%20Management%20ISM.pdf>

(optional: <http://www.lbl.gov/ehs/training/webdev/ISMvideo/>)

Important Information to read:	Comments	Y/N
Integrated Safety Management Plan (door)		
lab-hazards list & PPE requirement (door)	no food & drinks (no food at ALS beamline)	
red emergency information flipchart	at many phones in the Labs + check badge	
earthquake awareness (102)	restrain equipment	
all labels in lab 102	find PPE & tools & equipment	
labels at COLTRIMS chamber		
labels at controller cart (& pumps)		
AMOS webpage (maps, telephone numbers, safety classes etc.)	http://amo-csd.lbl.gov	
COLTRIMS binder at chamber	manifold procedure, crane logbook, IHAD...	

Important Locations:	Comments:	Y/N
labs 102, 104, 106, 321, 333 in building 2		
loading dock in building 2	pallet jack, carts, crane	
ALS store and building 7	account name: "guest", password: "guest"	
ALS control room	building 80, room 140D, Tel: x4969	
ALS EM and EI shop		
ALS user machine shop	a trained person is required	
ALS vacuum technician area		
ALS gas storage area at building 7		
ALS toxic gas storage area	contacts: Doug Taube, David Malone	
ALS JO-boxes	free safety equipment	
electricians in building 53	power poll	
building 26 (Health Services)	Monday-Friday: 7:30 am - 3:30 pm	

Note: grey boxes have to be initialed; the remaining boxes are supposed to be check marked

COLTRIMS Apparatus	Comments:	Y/N
Find and understand: <ul style="list-style-type: none"> • gauges • bypasses • leak valve • cold traps • electrical and mechanical feedthroughs • valves and gauges 	when in doubt ask LBNL personnel	
understand how to operate controllers		

Gas handling:	Comments:	Y/N
bottles location, storage, transportation	2A, building 7	
regulators and gas cabinet	contact: Doug Taube	
jet manifold setup and operation	when in doubt ask LBNL personnel	

Chemicals:	Comments:	Y/N
available solutions and solvents		
eyewash and emergency showers		
ultrasonic bath and SAA		

Safety Equipment and Tools:	Comments:	Y/N
gloves: latex, vinyl, polyethylene, nitrile, cotton, cryo & heat		
warning tapes and signs		
carts and pallet jack (building 2 and 7)		
lab coat, shoes...	no open-toed shoes	
hard hat		
safety glasses & goggles & face shield		
earplugs & earmuffs		
fire extinguisher		
spill container/trays		

Electrical:	Comments:	Y/N
grounding	ground electrical equipment before use	
standards (15 to 20Amps): 380 VAC 3 phase 208 VAC 3 & 2 phase 110 VAC 2 phase 50V/5mA threshold		
outlet protection near waterlines (< 2m)		
use only NRTL or JHA approved equip.	look for the green sticker	
SHV and BNC		
soldering hazard sheet, fan, metal tray		

Computers:	Comments:	Y/N
network and safety	TWeber-S37, -x24, -S02, -S97 and PassWd	
COBOLD operation & backups		

Miscellaneous:	Comments:	Y/N
LN ₂ dewars (location and operation)	ALS, building 2, lab 102 & 104	
crane operation	trained person required	
telescope handling, operation, transport		

Personal Protective Equipment (PPE) & Lab Rules: Comments & Exceptions

Communication:

- always inform others about your project and the associated hazards before you start your work

Safety Glasses:

- for certain hands-on-work safety glasses may not be required if there is no hazardous hands-on-work in the vicinity (note: when in doubt do not take off the safety glasses or consult the work lead).

this applies to:

- computer work
- lab tours & discussion
- work with the microscope & gauging
- detector assembly
- data taking
- delivering and fetching tools, packages and paperwork
- electronic readout (oscilloscope work, NIM)

exceptions possible after consulting Area Safety Lead (or div. safety coord. or EHS):

- wrenching
- driving (detector) screws
- assembly without tools
- cutting paper or cardboard

- it is your responsibility to inform your coworkers to put their protective eyewear back on when you start hazardous work in the vicinity, e.g. soldering, handling liquid nitrogen (add face shield when cryogen is pressurized), machining, lifting, cutting, crimping wrenching, electric wiring, working with pressurized (house) air (or cans) or compressed gases, filing, hammering, gluing and handling radioactive sources as well as any liquids.
- carry safety glasses with you at all times to switch back to full protection easily: use head bands or straps (provided at the PPE corner) or attach glasses to your clothing somehow.

Close-Toed Shoes:

- Flip-Flop, Sandals or any open toed shoes are not allowed in the technical area except during escorted tours (see below).
- when handling cryogenics make sure your shoes are closed and intact.

Long Pants, Lab coats and Gloves:

- shorts or skirts are generally acceptable. Long pants (with hem over top of shoe), lab coats, and gloves must be worn

when handling:

- chemicals >500ml
- special or toxic chemicals of any amount
- radioactive sources
- cryogenics (lab coat, thermal gloves & face shield when pressurized only)

if required by:

- safety training
- your Job Hazard Analysis Document (JHA)
- Activity Hazard Document (AHD)
- PUB3000
- or any other safety procedure in place

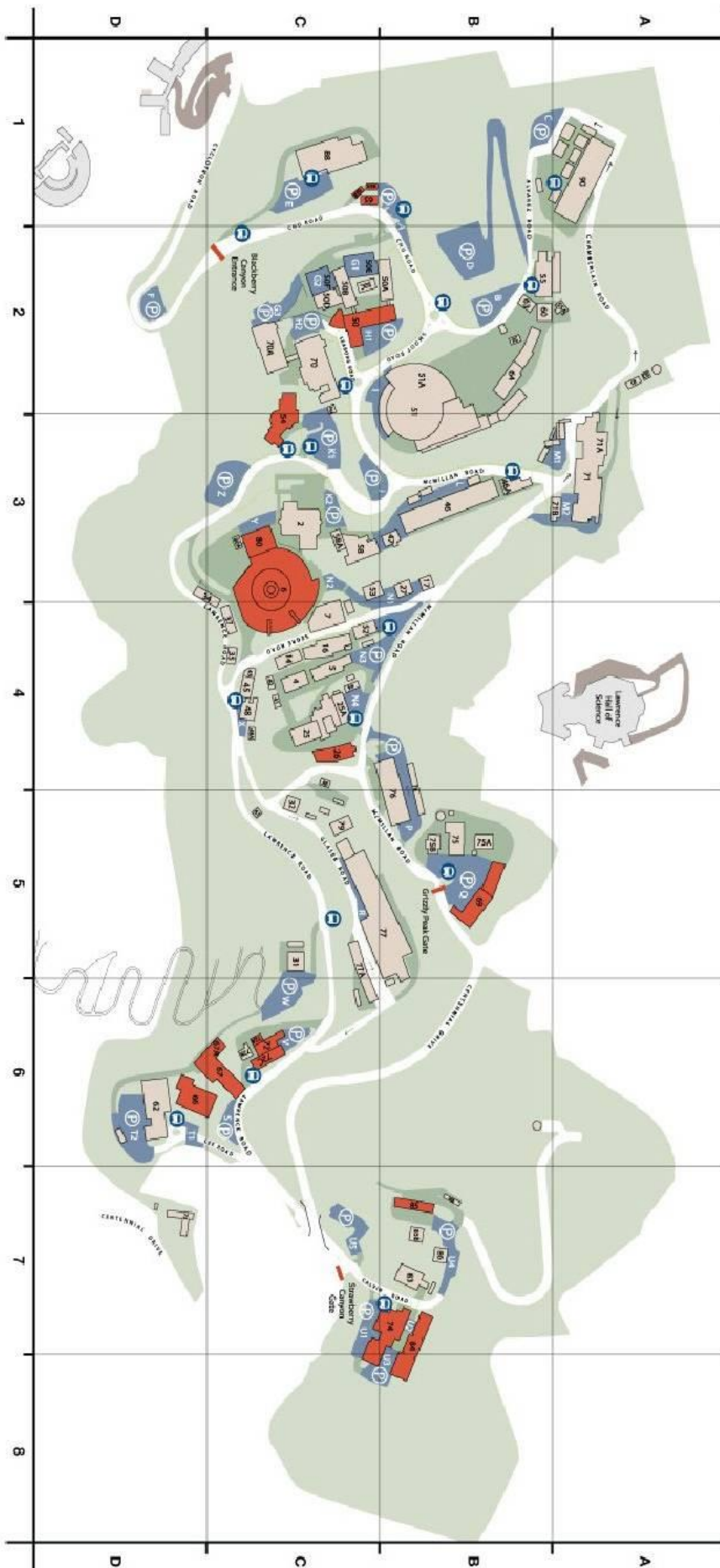
- consult your host, work lead, Area Safety Leader (ASL), or coworker for information about special safety procedures etc. in place (note: when in doubt wear long pants or leave the lab).

Escorted Tours:

- an exception from the safety glasses, long pants and close-toed shoes rule may be granted for guided tours.
- the guide has to make sure that it is safe to enter the technical area before entry.
- all (hazardous) work has to be stopped for the duration of the tour. Signage on the door informing people about the special PPE conditions has to be provided for the duration of the tour.
- exceptions do not apply to demonstrations.

Clear Aisles:

- keep the aisles, doors, electric panels, chairs and desks free: avoid bringing in jackets, back packs, suitcases, bags (leave them in the office or the printer room 2-108)



ALS/LBL general:

Beamline 10: 510-495-2102
 Beamline 11: 510-495-2077
 ALS control room: 4969 (room 80-140)
 Emergency: 7911
 Blackberry Gate: 4050
 Floor Operations: 7464
 EM-Shop: 5457
 Exp. Coordination: 7222

People:

Steve Cooper (electrical installation):
 510-812-1111

Harry Meyer (survey group)
 x2955

Alex Gavidia (survey group)
 x5469

Bruce Rude (technician)
 x2476

Doug Taube (gases & chemical safety)
 x4806 (office: 80-0156)

David Malone (safety coordinator)
 x6718

Steve Klingler (gas cabinet)
 x5177

Frank Zucca (vacuum)
 x4552

Monroe Thomas (rigging)
 x6423

Jason Borsos (water at the ALS)
 x2403

Tennessee Gock (all safety at the ALS)
 x4499 & x5013

Beamline Scientists:

BL10: David Kilcoyne (Office 7-0202)
 510-486-4640, BL 510-495-2102

BL 11: Hendrik Bluhm (Office 6-2216)
 510-486-5431, BL 510-495-2077

BL 11: Tolek Tyliszczak (Office 6-2224)
 510-486-5188, BL 510-495-2077

For more safety information and resources, check out the ALS Safety website:

<https://sites.google.com/a/lbl.gov/als-safety/home>