COLTRIMS ON-THE-JOB TRAINING

Facts and information you have to know



Data	•	
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-protectiveequipment-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	http://amo-csd.lbl.gov	
numbers, safety classes etc.)		
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:	when in doubt ask LBNL personnel	
• gauges		
 bypasses 		
leak valve		
cold traps		
electrical and mechanical feedthroughs		
 valves and gauges 		
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		

 <u>Communication:</u> always inform others about your project and the as <u>Safety Glasses:</u> for certain hands-on-work safety glasses may not work in the vicinity (note: when in doubt do not tak 	ssociated hazards before you start your work
 Safety Glasses: for certain hands-on-work safety glasses may not 	
	e 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 you start hazardous work in the vicinity, e.g. solder cryogen is pressurized), machining, lifting, cutting, pressurized (house) air (or cans) or compressed g radioactive sources as well as any liquids. 	ring, handling liquid nitrogen (add face shield when crimping wrenching, electric wiring, working with
 carry safety glasses with you at all times to switch or straps (provided at the PPE corner) or attach glasses 	
Close-Toed Shoes:	
 Flip-Flop, Sandals or any open toed shoes are not escorted tours (see below). 	
 when handling cryogens make sure your shoes are 	e closed and intact.
 Long Pants, Lab coats and Gloves: shorts or skirts are generally acceptable. Long par gloves must be worn 	nts (with hem over top of shoe), lab coats, and
when handling:	if required by:
 chemicals >500ml special or toxic chemicals of any amount radioactive sources cryogens (lab coat, thermal gloves & face 	 safety training your Job Hazard Analysis Document (JHA) Activity Hazard Document (AHD) PUB3000
shield when pressurized only)	- or any other safety procedure in place
 consult your host, work lead, Area Safety Leader (safety procedures etc. in place (note: when in doul 	
Escorted Tours:	
 an exception from the safety glasses, long pants a guided tours. 	and close-toed shoes rule may be granted for
• the guide has to make sure that it is safe to enter t	he technical area before entry.
 all (hazardous) work has to be stopped for the dura informing people about the special PPE conditions 	
 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

Tennesse 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/alssafety/home