Section 1 - Personnel capability checklist for laboratory procedures

QUARTZ PURITY TESTING High Level Lab

During training, each person who will be working in the lab needs to complete this list with initials as they master skills and gain knowledge. Only after this list is complete, can a new user work alone in the lab.

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	Item	Date	Personnel initial	Trainer initial
	Understand the primary hazards associated with			
	exposure to concentrated HF and have read the MSDS.			
	Understand the proper personal protective gear to wear			
	for each step in the laboratory.			
	When do you need to wear goggles?			
7	Understand the meaning and importance of the blue,			
0	yellow and green sections of the lab.			
II	Where is the first aid kit?			
[A]	Where is the safety shower?			
\mathbf{Z}	Where is the eyewash?			
OF	Know the meaning of red and yellow alarms.			
[F(Understand why we always use spill trays when pouring			
	any chemicals.			
S	Understand why any and all acid use must be done in a			
RE	hood.			
	Know the safe working area of the hood deck.			
SAFETY PROCEDURES INFORMATION	Understand why the hoods and lab counters must be			
C	kept free of clutter.			
S	Understand why unattended operation labels on the			
PF	hoods and the vestibule are critical for safety			
X	Where do you find hot plate temperatures?			
\mathbf{I}	Where do you find cleaning instructions for lab ware?			
E	Know the 4 important things to do that preserve the			
SA	Eppendorf repipettors (never leave in the hood, store			
	vertically in open air, and push tabs before inserting			
	tips)			
	Understand how to make up the mixed HF/H2SO4			
	When and where do you wash your hands after working in the lab?			
	When do you change the sticky matts?			

	Understand the importance of quartz testing and the		
	general principle behind the method		
	Know to save after every mass entry into the		
	spreadsheet		
	Know what equipment to use and where it is stored		
	Know how to set up batch sheet for quartz testing		
	including getting samples in EXCEL order		
TESTING	Know how to weigh out samples and how to keep the		
	balance clean		
	Know the importance of keeping beakers in order in the		
	heating trays		
	Know how to operate the hot plate safely and what		
	temperatures to use during different parts of the method		
T	Know how to add HF and start a dissolution		
QUARTZ	Know how to remove the watch glasses safely and begin		
	the evaporation stage		
$[\mathbf{A}]$	Know how to label tubes		
)U	Know how to add MilliQ water, vortex samples, and		
)	transfer samples into tubes		
	Understand the principle behind ICP-AES analysis		
	Understand the flow of samples through the lab and		
	know what to do with samples after quartz testing		
	Know why using two hands with the repipettor is		
	important		
	Know why releasing acid slowly from the repipettor is		
	important		
	Know how to clean up after completing different parts		
	of the method including how to clean the repipettor tip.		