UBC

Quiz: Safe Handling & Use of Liquid Nitrogen and Dry Ice

1. Please fill out the table below for the items listed:

Gas	Heavier or Lighter than Air?	Asphyxiation Hazard?
Dry Ice		
Oxygen		
Helium		
Nitrogen		

 List at least 3 different hazards associated with cryogenic material and indicate how you might protect yourself from them using personal protective equipment (PPE) and non-PPE controls (i.e. administrative controls, Safe Handling Procedures). Only one answer is needed in each box

Hazard	Non-PPE Controls	PPE Controls



	3. Circle true or false to the following questions:				
a.	a. Cold sealed rooms should be used for long term storage of cryogenic materials				
		TRUE	FALSE		
b.	When moving a cr	a cryogenic cylinder, all openings and orifices must be completely sealed to prevent			
	leakage	TRUE	FALSE		
C.	. Cleaning up a spill of liquid nitrogen is an emergency and an evacuation should take place				
		TRUE	FALSE		
d.	d. PPE is the last line of defence and should never be used as your first means of controlling a risk				
		TRUE	FALSE		
e.	A cryogenic container with frost on the top is an unsafe condition and should be melted off with hot water				
		TRUE	FALSE		
f.	Intermittent release conditions	ntermittent release of gas through the safety relief valve is likely to be due to normal operating conditions			
		TRUE	FALSE		
g.	Random spots of frost may indicate a damaged container and the container should be inspected / replaced				
		TRUE	FALSE		
h.	. Pouring cryogenics (i.e. liquid nitrogen) in an open area (like a loading dock), is unsafe because you do not have control of the materials in case of a spill				
		TRUE	FALSE		
Please present this completed quiz to your supervisor for discussion and assessment.					