## CQT/RA/005/V3

## Activity-Based Risk Assessment Form

 Name of Department
 Center for Quantum Technologies
 Location of Lab

 Name of Laboratory
 Quantum Optics Group
 Name of PI

S15-01-18/19

Christian Kurtsiefer

Name of Researcher/LC All personnel involved with labwork Name of Activity/Experiment

Handling of Compressed Gas Cylinder

1.				2. Access the Risk				3. Risk Control		
No	Description of Activity	Hazards	Possible Accident / III Health & Persons-at- Risk	Existing Risk Control (Mitigation)	Severity	Likelihood (Probability)	Risk Level	Additional Risk Control	Person Responsible	By (Date)
			IN SK			(Frobability)	Levei		Responsible	
1	Handling of Compressed Gas Cylinders	Sudden, out-of- control release of	Possible risk: Physical danger from asphyxiation for inert gases.	Engineering Control: Compressed Gas Cylinders are properly secured when in	3	1	3	No additional risk control required.		
		gas from cylinder along with the potential creation	<b>Person at risk:</b> Person handling the compressed gas cylinder, and any other people in the same enclosed area.	use. Administrative Control: Acknowledgement and conformance to						
		of a hazardous atmosphere.		control measures presented in the Standard Operating Procedures.						
		Sudden, out-of- control release of gas from cylinder along with the potential creation of a hazardous	Possible risk: Chemical burns in the case of corrosive gases. Person at risk: Person handling the compressed gas cylinder, and any other people in the same enclosed area.	Engineering Control: Compressed Gas Cylinders are properly secured when in use. Administrative Control: Acknowledgement and conformance to control measures presented in the	2	1	2	No additional risk control required.		
		atmosphere. Sudden, out-of- control release of	Possible risk: Explosion in the case of flammable gases.	Standard Operating Procedures. Engineering Control: Compressed Gas Cylinders are properly secured when in	3	1	3	No additional risk control required.		
		gas from cylinder along with the potential creation of a hazardous atmosphere.	Person at risk: Person handling the compressed gas cylinder, and any other people in the same enclosed area.	use. Administrative Control: Acknowledgement and conformance to control measures presented in the Standard Operating Procedures.						
2	Changing Compressed Gas Cylinders		Possible risk: Physical Injury. Person at risk: Person handling the compressed gas cylinder.	Personal Protective Equipment: Suitable closed-toe shoes to prevent crushing when moving cylinders. If a cylinder falls over, no one should EVER attempt to catch it. It is much too heavy and will cause serious injury. It is also very robust and is unlikely to be damaged although it may make a loud noise. Competent help should be called to assist in setting it upright.	2	1	2	No additional risk control required.		
			1							

## Conducted By Brenda Chng

Approved By

Center for Quantum Technologies

Name

Christian Kurtsiefer

Signature

Approval date \_\_\_\_\_ 23-Jun-14 \_\_\_\_\_

Next Revision date 22-Jun-17 (Maximum 3 years)