

Risk Assessment Form

(This is an active document and must be maintained)



UNIVERSITY OF
CAMBRIDGE

Materials Science and Metallurgy

Date: 20th February 2018

Supervisor of Room/Area: **Prof. Serena Best & Prof. Ruth Cameron**

Room or area: **2_014 (CCMM main lab)**
(Describe location)

Name of Assessor(s): **Wayne Skelton-Hough**

Title of Activity / Experiment / Work Area:

Use of the house compressed air

Description of Activity / Experiment / Work Area:

Use of the supplied compressed air blow guns to remove debris from samples or equipment and the connection of approved equipment to the house compressed air supply.

SECTION 1: Identify all significant hazards, who or what may be affected by each individual hazard and controls in place to reduce risk to a minimum.

Hazard Description	Hazard to whom or what	Controls in place to reduce risk to a minimum
Flying debris	All lab users	<ul style="list-style-type: none">• Always wear eye protection when using the compressed air.• Only use specifically designed compressed air blow guns to remove debris.• Be mindful of other lab users around you when using a compressed air blow gun.• Do not modify the compressed air blow gun in any way.
Air being injected into the body	Operator	<ul style="list-style-type: none">• NEVER use the compressed air blow guns to remove debris from the skin.• NEVER direct a jet of compressed air at the human body.
Failure of pressurized parts or fittings	All lab users	<ul style="list-style-type: none">• Only use approved pressure fittings on the departmental compressed air supply.• Ensure all fittings have the correct thread.• Visually inspect all fittings before turning on compressed air supply.

Flailing hose	All lab users	<ul style="list-style-type: none"> • Only use pressure hose capable of withstanding a pressure of 10 bar to connect equipment to the compressed air supply. • Replace any air hoses that show any sign of damage. • Ensure all hose fittings are secure before connecting the hose to the compressed air supply. • Only use crimped steel O clips to assemble compressed air lines. Do not use adjustable jubilee clips.
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SECTION 2: Emergency Procedures

If part of any compressed air system fails, the system shall be shut down and the mode of failure thoroughly investigated before repairs are made to the system.

If anyone gets debris in their eye, wash the eye with water for at least 15 mins, lifting upper and lower eyelid occasionally and then seek medical attention.

If anyone sustains a cut, it should be cleaned out and medical attention sought if bleeding or pain persists.

Signature of Assessor(s)		Date: 20/02/2018
Signature of Supervisor		Date: 29/2/18

SECTION 3: Review - This assessment must be reviewed every 12 months or earlier if the basis of the original assessment is altered.

Review Date	Reviewed by (Signature)

Review Date	Reviewed by (Signature)

Change log

Change	Date	Updated by	Description
1	20/02/2018	W. Skelton-Hough	Document issued.