

# Risk Assessment Form

(This is an active document and must be maintained)



UNIVERSITY OF  
CAMBRIDGE

## Materials Science and Metallurgy

Date: 17/09/18

Building: 27 Charles Babbage Road

Supervisor of Room/Area: S. Komori

Room or area: 1\_021 Clean preparation room  
(Describe location)

Name of Assessor(s): J.M. Devine-Stoneman

### Title of Activity / Experiment / Work Area:

Whizzy miller

### Description of Activity / Experiment / Work Area:

Ar ion miller with Ar/2%O<sub>2</sub>. High tension power supplies used to generate a plasma for ion milling. A stepper motor is used to rotate the sample rod. In daily use.

**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
Electric shock from high tension supplies	The user	Training before use. Exposure to high tension only possible if equipment operated without protective covers in place. When there is a need to replace the filament, it must be done by a manager, and the power is fully switched off.
Injury resulting from hair/clothing caught in moving parts	The user	Keep away from the sample rod while it is rotating, switch off the motor before attempting to unload. Tie long hair back.

Continued overleaf.....

**SECTION 2:** Emergency Procedures

The power supply should be switched off at the mains. The motor controller unit has a switch marked “emergency stop”.

Signature of Assessor(s)		Date: 17/09/18
Signature of Supervisor		Date: 17/09/18

**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)