

## NDMRB-RA-022

**Risk Assessment:** Repair or maintenance of laboratory equipment in the NDMRB – risks for staff to be aware of

### Scope

When repairing equipment in the NDMRB it is best practice for an engineer to be employed. Where an external engineer is called they must provide a RAMS and method statement should be obtained from the company.

Below are hazards which should be considered by the end users when either fixing instruments themselves or employing external experts.

<b>Name of assessor:</b>		<b>Date of Assessment:</b>		<b>Review Date:</b>	
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**Risk Matrix:**

Risk Matrix		Likelihood			
		High	Medium	Low	Negligible
Consequence	Severe	High	High	Medium	Effectively Zero
	Moderate	High	Medium	Medium/low	Effectively Zero
	Insignificant	Medium/Low	Low	Low	Effectively Zero
	Negligible	Effectively Zero	Effectively Zero	Effectively Zero	Effectively Zero

**Risk Assessment:**

Hazard (Cause and consequence)	Affected Groups	Existing controls	Risk	Further Action
Biohazard from exposure to infectious biological material	Staff Students Visitors	Prior to any maintenance or repair equipment will be fully decontaminated. Work is not be allowed whilst an engineer is in a restricted area. Permit of work is necessary to carry out repair or maintenance in Containment Level 3 suites and other high risk areas.	Low	None
Radiation exposure	Staff Students Visitors	Prior to any maintenance or repair the radiation suite and the equipment will be fully swabbed for traces of contamination. Work is not be allowed whilst an engineer is in a restricted area. Permit of work is necessary to carry out repair or maintenance in the radiation suite.	Low	None
Eye injury – through biologically or chemically contaminated liquid or by fast moving object.	Staff Students Visitors	Prior to any maintenance or repair the equipment will be fully decontaminated and decon form will be displayed on the equipment. Wear appropriate safety spectacles or visor if there are risk of splashes or spraying, or if working with parts which may spring out of their sockets.	Medium	None
Crushing injuries from moving equipment parts (i.e. falling objects)	Staff Visitors	Only trained personnel is allowed to remove the cover of a piece of equipment. Sensible footwear must be worn by the operator.	Medium	None

Manual handling injuries (Musculoskeletal Disorders) – when moving equipment	Staff Students Visitors	Equipment be placed in such a way that it is not necessary to move it. Ensure that adequate training regarding lifting/moving of heavy equipment is provided.	Medium	None
Electrical shock – from exposed parts of the equipment	Staff Visitors	Only trained personnel is allowed to remove the cover of a piece of equipment. Always turn off the equipment at the wall before opening a piece of equipment. RCDs or RCCBs will disconnect circuits if unexpected electric current unbalance is detected. Power must be isolated before electrical works commence	Low	None

Signed By Author:

Approved by (sign and print):

Reviewed by:

Review date: