THE UNIVERSITY OF WARWICK

Title of Assessment	Matthew Pearce Risk Assessment	Date of assessment	04/04/2019
		Date for review	
Department	Physics		
Descriptions of Activities	Risk assessment for the work related to the project of Matthew Pearce		
Name of those working to this assessment	Matthew Pearce	Any others who may be affected by this assessment	Other laboratory users.
Assessment carried out by	Matthew Pearce		

Additional information	

Foreseeable Significant Hazard	Existing control measures	Inherent Risk	Additional control measures	By whom & when	Controlled Risk Level
Use of cryogens - filling Nitrogen dewar. Cold burns/frostbite.	Receive training before first use. Use all appropriate PPE (e.g. gloves). Avoid contact with cold gas, liquids or cold surfaces.	Severe		User	Low
Use of cryogens - cryogen transfer to equipment (e.g. PPMS, VSM). Cold burns/frostbite.	Receive training before first use. Use all appropriate PPE (e.g. gloves). Avoid contact with cold gas, liquids or cold surfaces.	Severe		User	Low
Use of cryogens - filling Nitrogen dewar. Oxygen depletion/asphyxiation.	Filling carried out outside if possible. If not, fill in a well-ventilated space in the presence of an oxygen detector.	Major		User and those in close proximity to fill.	Low
Use of cryogens - cryogen transfer to equipment (e.g. PPMS, VSM). Oxygen depletion/asphyxiation.	Rooms are well ventilated with oxygen detectors where appropriate.	Major		User and those in close proximity to transfer of cryogens.	Low
High magnetic fields - danger to those with metal implants/pacemakers	Warning signs displayed on doors.	Major	Where possible, warn others entering the room if the magnet is charged.	User and those near equipment when in use.	Low

High magnetic fields - hit by a magnetisable object	Do not take magnetisable objects near magnet.	Minor		User and those near equipment when in use.	Low
Using sharp laboratory tools (tweezers, razor blades etc.)	Work carefully on a clear workbench. Cover sharp instruments when not in use and store clearly. Dispose of in sharps bins.	Low		User and those with access to work space.	Low
Handling samples - poisoning, eye or skin irritation or other ill effects.	Use appropriate PPE. Minimise exposure. Do not ingest - wash hands after handling and do not keep food or drinks close to samples, especially whilst handling. Read and file away safety sheet which comes with chemicals when purchased. Store appropriately.	Severe		User and those with access to workspace.	Low
Laboratory chemicals - poisoning/skin or eye irritation/burns.	Use appropriate PPE. Minimise exposure and where necessary avoid direct contact. Do not ingest - wash hands after handling and do not keep food or drinks close to chemicals, especially whilst handling. Read appropriate COSHH information and act accordingly.	Severe		User and those with access to workspace.	Low
Moveable platform - falls.	Ensure brake is in position during use. Ensure platform is dry and not slippery before use. Never over-reach over the edge.	Minor		User.	Low
Hot air gun - fire, burns.	Use with care and as trained. Point away from people and flammable objects.	Severe		User.	Low

Evacuable pellet dies.	Be trained before first use. Use all appropriate PPE. Close hydraulic press door during pressing. Ensure only safe levels of pressure are applied.	Minor		User and those in close proximity.	Low
Soldering - burns.	Ensure to use a suitable holster to hold the iron in place when it is not in use. Always make a conscious effort to look at what you are doing with the iron to avoid accidentally touching the wrong end. Allow soldered components to cool before touching.	Low		User.	Low
Soldering - fumes may be harmful in high concentrations or over long periods of exposure.	Solder in a well ventilated area. Consider using PPE if suitable. Do not look over the work too closely to avoid inhaling fumes.	Low		User.	Low
Soldering - solid solder - can get onto and into skin and be harmful.	No food or drink near soldering station. Always wash hands after soldering and before consuming food or drink.	Minor	Avoid using lead solder wherever possible.	User.	Low
Soldering - electrical faults - the cable joining the iron to the station is susceptible to strain/heat from the iron etc.	Do not use soldering irons with any obvious damage. Keep soldering iron away from cable.	Minor		User.	Low
Use of instruments involving x-ray generation (ionising radiation source) – possible radiation	Complete relevant training and receive instruction on proper use of each instrument to be used. X-ray sources are located in designated x-ray areas and include interlocking doors and shields to prevent radiation exposure	Severe		User and those in close proximity whilst radiation source is in use.	Low

burns or cellular damage.	to local area coupled with warning systems to indicate that the source is in use.				

Work should not be carried out until the assessment is completed to a suitable & sufficient level and all required control measures are in place.

Is assessment suitable and sufficient Yes

Any further actions required to allow work to commence	N/A

Approved By	Paul Goddard
Date	05/04/2019

Position	Supervisor

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	Severity of injury				
Likelihood	**Superficial**	**Minor**	**Serious**	**Major**	**Extreme**
Unlikely	**Very low**	**Very low**	**Low**	**Low**	**Moderate**
Possible	**Very low**	**Low**	**Low**	**Moderate**	**High**
Likely	**Low**	**Low**	**Moderate**	**High**	**Very high**
Very likely	**Low**	**Moderate**	**High**	**Very high**	**Very high**
Extremely likely	**Moderate**	**High**	**Very high**	**Very high**	**Very high**

See 'Matrix for risk evaluation' for further guidance.

Overall Risk Rating (highest level found)	