

RISK ASSESSMENT DETAILS

RISK ASSESSMENT TITLE

Flow Cytometers/Flow Cytometry

RISK ASSESSMENT COMPLETED BY:

Kate Millan – Health & Safety Officer

SUBJECT MATTER EXPERT:

Iain Commerford

RA NUMBER:

143MBS

VERSION:

1

VERSION DATE:

04/04/2011

REVIEW DATE:

04/04/2016

IMPORTANT NOTES

PERSONS AT RISK

Users of the equipment

RELATED DOCUMENTATION: (list any other sources of information that relates to this risk assessment, e.g. SOPs, other Risk Assessments etc)

School/University Biosafety Procedures
 MBS Waste Management Procedures
 HSW Safety Handbook
 Equipment Operating Manuals/Safe Operating Procedures for equipment

OVERALL RISK RATING

Low - Medium

HAZARD IDENTIFICATION & RISK ASSESSMENT (use the Risk Matrix below to assess the risk)

HAZARD 1:

Biological

ASSOCIATED RISKS:

Exposure to biological material

MEASURES REQUIRED TO REDUCE RISK:

1. Safety Glasses, lab coat and gloves must be worn
2. Users must have instruction on use of the equipment prior to use.
3. SOPs/Equipment User Manuals must be followed at all times.
4. Equipment must be cleaned after every use.
5. School's Waste Management Procedures must be followed.

RESIDUAL RISK (When all control measures have been implemented)

CONSEQUENCE

Moderate

LIKELIHOOD

Unlikely

RISK RATING

Medium

HAZARD 2:

Laser

ASSOCIATED RISKS:

Direct/indirect exposure to laser/thermal radiation.

MEASURES REQUIRED TO REDUCE RISK:

1. Do not look directly at light source.
2. Ensure optic covers and laser shields are installed and instrument doors are closed during operation.
3. Users must have instruction on use of the equipment prior to use.
4. SOPs/equipment user manuals must be followed at all times.

RESIDUAL RISK (When all control measures have been implemented)

CONSEQUENCE

Moderate

LIKELIHOOD

Rare

RISK RATING

Low

HAZARD 3:

Electricity

ASSOCIATED RISKS:

Some components of the machine conduct an electrical charge when the voltage is engaged.

MEASURES REQUIRED TO REDUCE RISK:

1. Components of the machine must not be touched when voltage warning light is illuminated.
2. Equipment must have a current electrical test tag.
3. Equipment to be maintained as per manufacturer's recommendations.

RESIDUAL RISK (When all control measures have been implemented)	CONSEQUENCE	LIKELIHOOD	RISK RATING
	Major	Rare	Medium

ADDITIONAL CONTROLS AFTER REVIEW

RISK CONTROL:

DATE OF REVIEW:	REVIEWED BY:

RISK CONTROL:

DATE OF REVIEW:	REVIEWED BY:

RISK CONTROL:

DATE OF REVIEW:	REVIEWED BY:

HAZARD REGISTER

If the residual risk is high or very-high after controls have been implemented, the risk assessment must be signed off by the Head of School and transferred to the Hazard Register.

DATE ENTERED ON HAZARD REGISTER:	HEAD OF SCHOOL SIGNATURE:

RISK MATRIX

		Consequence				
		Negligible	Minor	Moderate	Major	Severe
Likelihood	Almost Certain	M	H	V	V	V
	Likely	M	M	H	V	V
	Slight	L	M	H	H	V
	Unlikely	L	L	M	M	H
	Rare	L	L	L	M	M

Almost Certain	There is an expectation that such an event will occur.	Severe	Injury resulting in death or permanent disability.
Likely	There is an expectation that such an event could occur but not certain to occur.	Major	Injury requires extensive medical treatment, hospitalisation.
Slight	The expectation of this event occurring is between	Moderate	Injury requires formal medical treatment e.g. treatment as an

	"could" and "improbable".		outpatient in a medical facility.
Unlikely	The expectation of this event occurring is doubtful or improbable.	Minor	Injury requires first aid.
Rare	There is no expectation that this event will occur.	Negligible	Injury requires minor first aid or results in short term discomfort e.g. headache, bruise etc.