Risk Assessment Matrix

Activity or Experiment-Based Risk Assessment Form		
Department:	Faculty of Engineering	**Name of Experiment/Activity:**
Location:	E4A-06-03 Linear Electronics Lab	
Date:		

1. Hazard Identification				2. Risk Evaluation & Control							
Task	**Hazards**	**Possible Consequences**	**Existing Risk Control (if any)**	**Severity**	**Likelihood**	**Risk**	**Additional / New Risk Control**	**Severity**	**Likelihood**	**Risk**	**Action By**

Conducted by: (Name, designation)		**Approved by: (Name, designation)**	
Signature:		**Signature:**	
Date:		**Date:**	

Likelihood / Severity		Remote (1)	Occasional (2)	Frequent (3)
Minor	(1)	**1**	**2**	**3**
Moderate	(2)	**2**	**4**	**6**
Major	(3)	**3**	**6**	**9**

Severity Categories

Level	Human (Impact to Physical Being)	Biological Impact	Environmental Damage	Property Damage (S$)
(1) Minor	No Injury or light injury requiring only first aid treatment (MC < 4 days MC)	May not cause human disease, if does, the disease is unlikely to spread to the community and there is usually effective prophylaxis or treatment available;	Reversible	Up to $5,000
(2) Moderate	Any injury/ill health leading to ≥ 4 days MC or ≥ 1 day hospitalisation or leads to temporary disability	Can cause severe human disease, not ordinarily spread by casual contact from one individual to another; it may spread to the community, but there is usually effective prophylaxis or treatment available	Reversible but takes years	$5,001 to $50,000
(3) Major	Fatality, permanent Disability or life threatening disease	Can cause lethal human disease, may be readily transmitted from one individual to another, or from animal to human or vice-versa directly or indirectly, or casual contact, it may spread to the community; usually no effective prophylaxis or treatment available	Irreversible	More than $50,000

Likelihood Categories

Level	Events Frequency
(1) Remote	Undesired event which may occur but unlikely, once in 5 years
(2) Possible	Undesired event which is probable, once in a year
(3) Frequent	Undesired event which probably occur in most circumstances, once or more in a month

Risk Level and Acceptability Criteria

Risk Score	Risk Level	Acceptability of Risk	Recommended Actions
<3	Low Risk	Acceptable	No additional risk control measures required. To continue to monitor to ensure risk do not escalate to higher level.
3 – 4	Medium Risk	Moderately Acceptable	Acceptable to carry out the work activity; however, task need to be reviewed to bring risk level to As Low As Reasonably Practicable. Interim control measures such as administrative controls can be implemented. Supervisory oversight required.
>4	High Risk	Not Acceptable	Job must not be carried out until risk level is brought to at least medium risk level. Risk controls should not be overly dependant on personal protective equipment. Controls measures should focus on Elimination, substitution and engineering controls. Immediate Management intervention required to ensure risk being brought down to at least medium level before work can be commenced.