Faculty of Arts, Computing, Engineering and Sciences

For Office Use Only

File Reference:

File Date:

Review Date:

Type of Activity:

Risk Assessment / Method Statement / Sequence	e of Work	For	m RAMS3	(Nov 09)
Written By: (Print name) Muffher Sign:	MDI		Date: 74	110/18
Approved By: (Line Manager/Supervisor) A. Calasturi & Sign:	Sta	was	Date: 24	110/18
* If this RA/MS is issued to several persons, each should sign overleaf - Cop	ies of this RA/M	S must be issued	to all participati	ing persons.
Activity / Project Title (Course):				
Location:				
(Please use additional sheet if required)				
Examples of Common Hazards (Please Tick all that apply	1)			
Machinery / tools Entanglement Dust Falling 0	bjects	Lighting	Striking Obje	ect
Chemical Hazard Cutting Accident Electrocution	Fire Mar	nual Handling	Toxic Gas	ies
Climate Lasers Explosion Fig	poding	Noise	Traf	ffic
Material Ejection ☐ Display Screens ☑ Fall from Height ☐ Lifting Equi	pment	Abrasion	Slip/Trip Hazar	rds
N-I Radiation Vibration Other ✓ (please special properties of the propert	ecify)			RSI
Using the list above and your knowledge of the ac Give priority to hazards where the numbers of person				
	Number of	obability or s	severity are	nign.
Significant Hazards Rate the hazards using the Risk Rating Analysis Matrix given in Table 1 below. Ignore minor hazards covered by normal safe working practices.	Persons at Risk	Probability	Severity	Risk Rating
Risk of burning from the hot end of a soldering iron	1	1	3	3
Risk of Solder spit	1	1	2	2
Risk of choking on fumes	1	1	2	2
Risk of electrocution	1	1	3	3
Risk of RSI from extended keyboard and mouse use	1	1	2	2
Risk of cuts from wire clippers	1	1	2	2
etropico totrollicoje estreno i estat sultar a completa	Stantonia II-	and and		
	-			
		Cython mid En		
manufacture and the second and the s				

substances / I			lentify Risk Phrases	from MSDS		Refer to Table 3 / MSD
esin core solder						
						1 1000
						Faculty of Br
						Rick Assertan
						Written Syr a new
						Approved By
						sal mount sail
						Audylig / Project
						reclined.
						The Section Co.
						The state of the s
Settor 1			The state of the s	Samuel I	mical penalt	mean destinate
re less haza	rdous substa	nces availab	ole?	NO	es)]
'Yes' reason	s for not usin	g them?	3 500 1 10	manine E	annes especia	and a plant of the second
						Taking taken a same
			(Please use additional sha		piect will be com	nlated from a dask and wi
	equire soldering				oject will be com	pleted from a desk and wi
ne parts that re	equire soldering				oject will be com	pleted from a desk and wi
ne parts that re	equire soldering					pleted from a desk and wi
ne parts that re	equire soldering					
ne parts that re	equire soldering					
ne parts that re	equire soldering					
ne parts that re	equire soldering					
he parts that re	equire soldering					
ne parts that re	equire soldering					
he parts that re	equire soldering					
he parts that re	equire soldering					
he parts that re	equire soldering					
ne parts that re	equire soldering					
ne parts that re	equire soldering ter only.	together will b		e rest of the pro	eing the field hulder overest severes on the control of the split colong on fund lectrocution of the colong on fund lectrocution of the colong on fund severes of the colong of th	Risk of Salak of Sala
ne parts that require a compu	equire soldering ter only.	Il controls t	e soldered first the	e rest of the pro	eing the field hulder overest severes on the control of the split colong on fund lectrocution of the colong on fund lectrocution of the colong on fund severes of the colong of th	Risk of Salak of Sala
control Me	equire soldering ter only.	Il controls t	e soldered first the	risks from th	e significant I	hazards

Control Measures Refer to Table 2 for an individual Risk Rating/s.	interpretation of the Actions and Timescales required relative to the above	Safety Phrase Code: Refer to Table 4 / MSDS
	from solder ety clothing to protect from solder spit s of the equipment to make sure there are no exposed mains	S23 S36
Take precautionary m Take Regular breaks	neasures against static discharge to avoid RSI tential at risk areas are clear before cutting e.g. fingers	S33
Relevant Regulation	COSHH CONTROL OF Substances Hazardous to Health MH Noise at Work regs Manual Handling regulations Noise at Work regs Equipment Equipment	Lifting Operations & Lifting Equipment reqs
Skills and	rego Equipment	Naviation
Competencies Do all the persons	s involved in this activity have the skills and competencies	required to carry
	- If YES please Tick ✓	required to carry
If NO please indica	ate below the skills and competencies to be acquired as pa	ort of the activity.
(Please use additional sheet if re	equirea)	
Pasaurasa Paguir	and a a Dignt Equipment Tools ato	
	red e.g. Plant, Equipment, Tools, etc. (Please use additional sheet if required)	
Soldering iron Wire clippers Soldering helping h	ands	
amg		
Sept.		

	Safety Phrase Code: Refer to Table 4 / MSDS
Contact a member of staff immediately. Green signs indicate how to contact a local first aider. For medical emergencies ring 888.	Nelei to Table 47 MODO
	Do not seems but of
	Antis Brungrappa savivi
	entitiones
	om y processory and i Take Regular brenks to
	Make oute that at pote
Naste Disposal Procedures (Please use additional sheet if required)	
a below the skills and counseloncies to be acquired as pan of the notivity.	Pulivitae ett tuo malari reseta CM N
Additional Information (Please use additional sheet if required)	Tulivitae ent tuo mallani sussia Oli II urtusa tensia su sussi
Additional Information (Please use additional sheet if required)	Tulivitos entras Incilori susela Old II
Additional Information (Please use additional sheet if required)	Telivitae ent fuo mallani resela Oli il prima trasta al mai
Additional Information (Please use additional sheet if required)	Tulivitae eni fuo Inoloni sessia Oli II urtina tressa al mai
Additional Information (Please use additional sheet if required)	Traivitos entras Inciloni resela CM R
Additional Information (Please use additional sheet if required)	mallant resets Old N
Additional Information (Please use additional sheet if required)	Tutivitae ent tuo Inciloni resela Old R Inci
Additional Information (Please use additional sheet if required)	Tutivitae ent fuo mallant sessia Old N artica transación actività militari entre actività della consensación manufactoria entre actività della consensación manufactoria entre actività della consensación
Additional Information (Please use additional sheet if required)	Tutivitae entrao Inciloni resela Old R Incil
Additional Information (Please use additional sheet if required)	Tretivitae entras mallant reseta Old R antica tresta a reset anticast engineess anticast engineess anticast engineess
Additional Information (Please use additional sheet if required)	Telivitae ent no molant resela Old H artica tressa a maria muset englanes entressa a maria a maria muset englanes entressa a maria a m
d e.g. Fisht. Equipment. Tools, etc. communications are serviced.	Date:
Date RA/MS To Be Reviewed (within 36 months of the date above)	Date:
Additional Information (Please use additional sheet if required) Date RA/MS To Be Reviewed (within 36 months of the date above) Date Copy of RA/MS filed with Relevant Technical Team Leader / Advisor Received / Approved By (Relevant Technical Team Leader / Advisor)	

NOTE: Please attach any other information that you think may be relevant to this activity e.g. Handouts, Travel Arrangements, Accommodation, Site Contacts, Mobile & Landline Phone Numbers, etc.

Table 1 - Risk Rating Analysis Matrix					
	Probability (Likelihood)				
Severity (Hazard Consequence)	1 Very Unlikely (Freak event – No known history)	2 Unlikely (Unlikely sequence of events)	3 Possible (Foreseeable under unusual circumstances)	4 Likely (Easily foreseeable-Odd incident may have occurred)	5 Very Likely (Common occurrence – Aware of incidents)
1 Negligible	Trivial	Trivial	Acceptable	Acceptable	Acceptable
(No visible injury – No pain)	1	2	3	4	5
2 Slight	Trivial	Acceptable	Acceptable	Moderate	Moderate
(Minor cuts, bruises – No long term effects)	2	4	6	8	10
3 Moderate	Acceptable	Acceptable	Moderate	Substantial	Substantial
(Heavy bruising, deep flesh wound. Lost time accident)	3	6	9	12	15
4 Severe	Acceptable	Moderate	Substantial	Substantial	Intolerable
(Lost time accidents and major injuries)	4	8	12	16	20
5 Very Severe	Acceptable	Moderate	Substantial	Intolerable	Intolerable
(Long term disability or death)	5	10	15	20	25

Table 2 - Interpre	etation of the Actions and Timescales required relative to the Risk Rating identified using the above Analysis Matrix.		
Risk Rating	Action and Timescale		
Trivial 1 to 2	No action is required to deal with trivial risks and no documentary records need be kept (insignificant risk).		
Acceptable 3 to 6	No further preventative action is necessary but consideration should be given to cost-effective solutions or improvements that impose minimal or no additional cost burden. Monitoring is required to ensure that the controls are maintained.		
Moderate 8 to 10	Efforts should be made to reduce the risk but the costs of prevention should be carefully measured and limited. Risk reduction measures should normally be implemented within three to six months, depending on the number of people exposed to the hazard.		
Substantial 12 to 16	Work should not be started until the risk has been reduced. Considerable resources may have to be allocated to reduce the risk. Where the risk involves work in progress, the problem should be remedied as quickly as possible and certainly within one to three months.		
Intolerable 20 - 25	Work should not be started or continued until the risk level has been reduced. While the control measures should be cost-effective, the legal duty to reduce the risk is absolute. This means that if it is not possible to reduce the risk, even with unlimited resources, then the work must not be started or must remain prohibited.		

Table 3 - Approved Risk Phrases

isk Code	Risk Phrase
R1	Explosive when dry
R2	Risk of explosion by shock, friction, fire or other source of ignition
R3	Extreme risk of explosion by shock, friction, fire or other source of ignition
R4	Forms very sensitive explosive metallic compounds
R5	Heating may cause an explosion
R6	Explosive with or without contact with air
R7	May cause fire
R8	Contact with combustible material may cause fire
R9	Explosive when mixed with combustible material
R10	Flammable
R11	Highly flammable
R12	Extremely flammable
R14	Reacts violently with water
R15	Contact with water liberates extremely flammable gases
R16	Explosive when mixed with oxidising substances
R17	Spontaneously flammable in air
R18	In use may form flammable/explosive vapour-air mixture
R19	May form explosive peroxides
R20	Harmful by inhalation
R21	Harmful in contact with skin
R22	Harmful if swallowed
R23	Toxic by inhalation
R24	Toxic in contact with skin
R25	Toxic if swallowed
R26	Very toxic by inhalation
R27	Very toxic in contact with skin
R28	Very toxic if swallowed
R29	Contact with water liberates toxic gas
R30	Can become highly flammable in use
R31	Contact with acids liberates toxic gas
R32	Contact with acids liberates very toxic gas
R33	Danger of cumulative effects
R34	Causes burns
R35	Causes severe burns
R36	Irritating to the eyes
R37	Irritating to the respiratory system
R38	Irritating to the skin
R39	Danger of very serious irreversible effects
R40	Possible risk of irreversible effects
R41	Risk of serious damage to the eyes
R42	May cause sensitisation by inhalation
R43	May cause sensitisation by skin contact
R44	Risk of explosion if heated under confinement
R45	May cause cancer
R46	May cause heritable genetic damage
R48	Danger of serious damage to health by prolonged exposure
R49	May cause cancer by inhalation
R50 R51	Very toxic to aquatic organisms Toxic to aquatic organisms
R52	Harmful to aquatic organisms
R53	May cause long term adverse effects in the aquatic environment
	Toxic to flora
R54 R55	Toxic to flora Toxic to fauna
R56	Toxic to rauna Toxic to soil organisms
R57	Toxic to bees
R58	May cause long term adverse effects in the environment
R59	Dangerous for the ozone layer
R60	
R61	May impair fertility May cause harm to the unborn child
R62	Possible risk of impaired fertility
R63	Possible risk of impaired fertility Possible risk of harm to the unborn child
R64	May cause harm to breastfed babies

Safety Code	Safety Phrase				
S1	Keep locked up				
S2	Keep out of reach of children				
S3	Keep in a cool place				
S4	Keep away from living quarters				
S5	Keep contents under(specify appropriate liquid)				
S6	Keep under(specify inert gas)				
S7					
	Keep container tightly closed				
S8	Keep container dry				
S9	Keep container in a well ventilated place				
S12	Do not keep the container sealed				
S13	Keep away from food, drink and animal feeding stuffs				
S14	Keep away from(incompatible materials identified by manufacturer)				
S15	Keep away from heat				
S16	Keep away from sources of ignition - No smoking				
S17	Keep away from combustible material				
S18	Handle and open container with care				
S20	When using do not eat or drink				
S21	When using do not smoke				
S22	Do not breathe dust				
S23	Do not breathe gas/fumes/vapour/spray(appropriate wording to be specified by manufacturer				
S24	Avoid contact with the skin				
S25	Avoid contact with the eyes				
S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice				
S27	Take off immediately all contaminated clothing				
S28	After contact with skin, wash immediately with plenty of(specified by the manufacture)				
S29	Do not empty into drains				
S30	Never add water to this product				
S33					
S35	Take precautionary measures against static discharge This material and its container must be disposed of in a safe way				
S36	Wear suitable protective clothing				
S37	Wear suitable gloves				
S38	In case of insufficient ventilation, wear suitable respiratory equipment				
S39	Wear eye/face protection				
S40	To clean up floor and all objects contaminated by this material use(to be specified by the manufacturer				
S41	In case of fire and/or explosion do not breathe fumes				
S42	During fumigation/spraying wear suitable respiratory equipment (appropriate wording to be specified)				
S43	In case of fire use(indicate the precise type of fire fighting equipment. If water increases the risk add - never use water)				
S45	In case of accident or feeling unwell, seek medical advice immediately(show label where possible)				
S46	If swallowed seek medical advice immediately and show this container or label				
S47	Keep at temperature not exceedingC(specified by the manufacturer)				
S48	Keep wetted with(specified by the manufacturer)				
S49	Keep only in the original container				
S50	Do not mix with(specified by the manufacturer)				
S51	Use only in well ventilated areas				
S52	Not recommended for interior use on large surface areas				
S53	Avoid exposure - obtain special instruction before use				
S56	Dispose of this material and its container to hazardous or special waste collection point				
S57					
	Use appropriate containment to avoid environmental contamination				
S59	Refer to manufacturer/supplier for info on recovery/recycling				
S60	This material and/or its container must be disposed of as hazardous waste				
004					
S61 S62	Avoid release to the environment If swallowed, do not induce vomiting; seek medical advice immediately and show container or				