UNIVERSITY OF WESTERN SYDNEY

LABORATORY RISK ASSESSMENT FORM

To complete this form refer to LRA Guidance Notes & UWS Hazard Identification, Risk Assessment and Control Procedures
(www.uws.edu.au/about/adminorg/corpserv/ohr/occupationalhealthsafetyandwelfare/uwsoshpolproc/ohsindex)

PROJECT/EXPERIMENTAL DATA

Staff/Researcher/Student: Dr. Sasha Alexander (staff)
Supervisor/s (name and qual): Mauricio Novoa DAP
College/School: SCEM
Unit No./Course No.: 300459 Major Project Commencement
Location (Campus, Room No.): School of Computing, Engineering, and Mathematics ID WORKSHOP (studio/workshop rooms)
Project Title: Coursework: Major Project Commencement

Briefly outline the procedure for this project/experiment:
**Activity:**
Use of ID workshop Studio space for Industrial Design model making. This includes the making of cardboard, foam, sheet styrene, plywood and other materials as appropriate to create concept and progress models and other finalised presentation models. The models maybe filled with automotive or builder’s plastic-based filler and painted using auto primer purchased from mainstream automotive stores such as Autopro, Repco. The intermediate rough and ‘Presentation’ models might be fabricated using any number of available machines, tools and materials in succession or combination in order to achieve the desired result.

**Location:**
Current location is the Industrial Design studio/workshop, this is a collection of desks and woodworking benches arranged in a section of a large open space with a yellow fence surrounding the desk defining the workshop space. The workshop has been downgraded from a purpose built and fitted out professional workshop to a separate more generic environment. We have been advised that under the new School that this is going to be developed back to the purpose built workshop /Studio space.

**Who may be at risk by the activity:**
All students enrolled in the Unit are required to complete assessment items including a final presentation model as required by the Unit unless they have a disability, allergy or other reasonable reason for not partaking in the assessment activity.

Students have to establish whether they are allowed to use powered machinery and or hot wire-cutters and the spray booth.

Some risks are related to the use of hand tools, dusts and fumes created by materials and glues as well as the general potential dangers of being in a workshop/studio environment. Workshop risks must be controlled by the technical staff in SCEM as they supervise the space day to day as well as train students in safe workshop practice and tool use. A list of activities are provided to the technical staff outlining requirements for completion of assessment components. Any safety issues relating to these requirements or activities should be identified by the technical staff and notification should be given to the academic staff coordinating the Unit and their supervisor. It is understood the technical staff are the experts and supervisors of the workshop environment and ultimately responsible for activities in the workshop.

Materials used are mostly low risk, except for superglue, auto primer and auto filler. These hold some risk if not used correctly, however they are commonly available from supermarkets and hardware stores. If used following the manufacturers guidelines they pose only a small risk of permanent harm.

**LEGAL OBLIGATIONS**
The NSW OHS Act 2000 and OHS Regulation 2001 (Chapter 2) requires identification of all foreseeable hazards in the workplace, assessment of the risks that these hazards pose to health and safety and the elimination or control of these risks.

**SUMMARY OF RISK ASSESSMENT**

<table>
<thead>
<tr>
<th>Physical Hazards</th>
<th>Yes</th>
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<tbody>
<tr>
<td>Electrical Hazards</td>
<td>Yes</td>
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<tr>
<td>Chemical Hazards</td>
<td>Yes</td>
</tr>
<tr>
<td>Biological Hazards</td>
<td>No</td>
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<tr>
<td>Radiation Hazards</td>
<td>No</td>
</tr>
<tr>
<td>Outdoor/Farm Hazards</td>
<td>No</td>
</tr>
<tr>
<td>Field Work Hazards</td>
<td>No</td>
</tr>
</tbody>
</table>

If yes to any of the above complete the appropriate risk assessment attached.

If work involves ‘physical activity’ (e.g. exercise and sports assessment) of staff/students complete “pre-screening questionnaire” prior to commencement.
### DISSEMINATION OF RISK ASSESSMENT

It is imperative that copies of this form be distributed to relevant personnel, such as technical staff involved in the project, laboratory supervisors and casual staff for undergraduate units.

Has a copy of this form been disseminated to all relevant personnel? Yes | No

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### DECLARATION

We the undersigned declare that this Laboratory Risk Assessment is a true record of the Risk Assessment undertaken. We agree to monitor the effectiveness of control measures and review this Risk Assessment in line with the requirements of the OHS Regulation 2001.

<table>
<thead>
<tr>
<th>Student/Staff:</th>
<th>Dr. Sasha Alexander</th>
<th>Date: 20.2.13</th>
</tr>
</thead>
<tbody>
<tr>
<td>Supervisor/s:</td>
<td>Mauricio Novoa</td>
<td>Date:</td>
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<tr>
<td>Head of School/ Academic Supervisor/Manager:</td>
<td></td>
<td>Date:</td>
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</tbody>
</table>
**RISK ASSESSMENT FOR PHYSICAL HAZARDS**

Physical hazards relate to the equipment and processes that you use and include heat, cold, noise, dust, machinery, manual handling, power tools, working at heights, electrical equipment, vacuum and pressure equipment, ignition sources, projectiles, fire/explosion etc.

Are **Standard Operating Procedures (SOP)** available for any of the identified physical hazards?

- Yes
- No

If ‘Yes’, please specify where SOP are located (Should be held by provided Engineering technical officer)

<table>
<thead>
<tr>
<th>Physical Hazard</th>
<th>Risk (Harm)</th>
<th>Risk Rating (R)¹</th>
<th>Risk Control Measures</th>
<th>Risk Rating (R)²</th>
<th>Trained in Control Measures³</th>
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</thead>
<tbody>
<tr>
<td>Identify the</td>
<td></td>
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<td>DETERMINE CONTROL MEASURES REQUIRED TO ELIMINATE OR MINIMISE THE RISK USING ‘HIERARCHY OF CONTROL MEASURES’.</td>
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<tr>
<td>hazards</td>
<td></td>
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<td>A P R</td>
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</tr>
<tr>
<td>1. Sawing</td>
<td>Cuts</td>
<td></td>
<td>1. Technical officer to demonstrate safe use of hand tools, painting,</td>
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<td></td>
<td></td>
<td></td>
<td>gluing and putty use.</td>
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<td>2. Sanding</td>
<td>Abrasions</td>
<td></td>
<td>2. Technical officer to demonstrate safe use of hand tools, painting,</td>
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<tr>
<td></td>
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<td></td>
<td>gluing and putty use.</td>
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<tr>
<td>3. Sharp knife</td>
<td>Cuts/slices</td>
<td></td>
<td>3. Powerpoint on Knife safety available in vUWS</td>
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<tr>
<td>cutting</td>
<td></td>
<td></td>
<td>4. Technical officer to demonstrate safe use of hand tools, painting,</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>gluing and putty use.</td>
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<tr>
<td>4. Vice finger</td>
<td>Finger crush</td>
<td></td>
<td>5. Technical officer to keep a clean workshop environment, particularly floors.</td>
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<tr>
<td>crush</td>
<td></td>
<td></td>
<td>Must identify slip hazards including motivating and supervision of</td>
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<td></td>
<td></td>
<td></td>
<td>students cleaning workshop environment.</td>
<td></td>
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<tr>
<td>5. Falling</td>
<td>Falling in Workshop</td>
<td></td>
<td>PPE Safety induction by technical officer including signing who has completed</td>
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<td></td>
<td></td>
<td></td>
<td>induction.</td>
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<td></td>
<td></td>
<td></td>
<td>Students not to use powered machinery.</td>
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</table>
RISK ASSESSMENT FOR ELECTRICAL HAZARDS

HIGH RISK plug in electrical equipment must be inspected, tested and tagged as required by Workcover, in accordance with the recommendations of the Standard AS/NZS 3760:2003 (currently every 12 months). Refer to UWS Tagging & Testing for Plug-in Electrical Equipment for further details. (http://www.uws.edu.au/about/adminorg/corpserv/ohr/occupationalhealthsafetyandwelfare/uwsohspolproc/ohsindex)

HIGH RISK electrical equipment is cited as:
- Equipment that is handheld by an operator eg power tools
- Portable equipment or equipment that is routinely moved between places eg water baths, pH meters, balances, centrifuges
- Equipment that is used in a hostile work environment such as laboratories and workshops

<table>
<thead>
<tr>
<th>Equipment Description</th>
<th>Inspection Result</th>
<th>Maintenance Required</th>
<th>Tagged and Tested</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Operational (OK) or Faulty (F)</td>
<td>(Yes-include date/No)</td>
<td>(Yes-include date/No)</td>
</tr>
<tr>
<td>Bandsaw</td>
<td></td>
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<tr>
<td>Drill Press</td>
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<tr>
<td>Disk sander</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Denford CNC mill</td>
<td></td>
<td></td>
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<tr>
<td>Dust extractor</td>
<td></td>
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<tr>
<td>Fume extractor</td>
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</tbody>
</table>

It is expected that the equipment testing will be coordinated by UWS technical staff before week 2 of semester 1 2013.

DO NOT USE equipment if it is faulty, requires maintenance and has not been tested and tagged by an authorised person. Contact your supervisor if necessary.
## RISK ASSESSMENT FOR CHEMICAL HAZARDS

Has MSDS* for each chemical been read, understood and made readily accessible?
- Yes
- No

If ‘Yes’, specify location of MSDS (room/building no.)
Room not commissioned at time of form completion.

Are adequate transport and storage facilities available?
- Yes
- No

Are appropriate chemical waste disposal systems available?
- Yes
- No

Are appropriate procedures in place in the event of a spill, leak or emergency?
- Yes
- No

Is health surveillance and/or monitoring required for any chemical?
- Yes
- No

+ If ‘Yes’, contact OHS Technical Coordinator before commencing use of chemical.

### Chemical Hazard

<table>
<thead>
<tr>
<th>Chemical Hazard</th>
<th>Qty and Conc.</th>
<th>Specific procedure for spill, leak or emergency</th>
<th>Risk (Harm)</th>
<th>Risk Rating (R)</th>
<th>Risk Control Measures</th>
<th>Risk Rating (R)</th>
<th>Trained in Control Measure</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Styrene fumes/dust reaction</td>
<td>N/A</td>
<td>N/A</td>
<td>Low</td>
<td>1. PPE and use equipment in the correct manner (dust mask and lab coat)</td>
<td>1. PPE and use equipment in the correct manner (dust mask and lab coat)</td>
<td>PPE Safety induction</td>
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<tr>
<td>2. Wood dust reaction</td>
<td>N/A</td>
<td>N/A</td>
<td>Low</td>
<td>2. PPE and use equipment in the correct manner (dust mask and lab coat)</td>
<td>2. PPE and use equipment in the correct manner (dust mask and lab coat)</td>
<td>PPE Safety induction</td>
<td></td>
</tr>
<tr>
<td>3. Spray paint spill</td>
<td>Clean up with rags and dispose in outside dump bin</td>
<td>Minor chemical exposure</td>
<td>Low</td>
<td>3. Follow manufacturers guidelines (use in ventilated area)</td>
<td>3. Follow manufacturers guidelines (use in ventilated area)</td>
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<td>4. Superglue exposure</td>
<td>Minor chemical exposure</td>
<td>Low</td>
<td>4. Follow manufacturers guidelines (use gloves in ventilated area)</td>
<td>4. Follow manufacturers guidelines (use gloves in ventilated area)</td>
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<tr>
<td>5. Epoxy putty in contact with skin</td>
<td>Fume exposure</td>
<td>Low</td>
<td>5. Follow manufacturers guidelines (use in spray booth)</td>
<td>5. Follow manufacturers guidelines (use in spray booth)</td>
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<td>6. Painting</td>
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</table>
**RISK ASSESSMENT FOR BIOLOGICAL HAZARDS**

Has approval been given by the UWS Biosafety and Radiation Safety Committee (BRSC)?

- N/A
- Yes
- No

If ‘Yes’, specify BRSC application number and date of approval.

Does the approval cover all hazards associated with this project?

- N/A
- Yes
- No

If ‘No’ for either question above continue risk assessment below.

Are adequate transport and storage facilities available?

- Yes
- No

Are appropriate biological waste disposal systems available?

- Yes
- No

Are appropriate procedures in place in the event of a spill, leak or emergency?

- Yes
- No

Has a staff:student ratio of 1:15 been applied as per BRSC recommendations for high risk biologicals/potential pathogens?

- Yes
- No

Is health surveillance and/or vaccination required? If ‘Yes’, please specify

- Yes
- No

* If health surveillance is required contact OHS Technical Coordinator before commencing work.

<table>
<thead>
<tr>
<th>Biological Hazard 1</th>
<th>Risk (Harm)</th>
<th>Risk Rating (R) 1</th>
<th>Risk Control Measures</th>
<th>Risk Rating (R) 2</th>
<th>Trained in Control Measures 3</th>
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</table>

* Material Safety Data Sheet

Signature: ___________________________ Date: ___________________________ Review Date: ___________________________
## RISK ASSESSMENT FOR RADIATION HAZARDS

Is the premises where radiation work is conducted registered with the EPA?  
Yes  No

Has approval for radiation work been given by the UWS Biosafety and Radiation Safety Committee (BRSC)?  
Yes  No  
If ‘Yes’, specify BRSC application number and date of approval

**If ‘No’ to either of the above, do not commence work and contact the BRSC immediately**

Are adequate storage or containment facilities available?  
Yes  No  
If ‘Yes’, specify location

Are appropriate procedures in place in the event of an emergency?  
Yes  No

Are appropriate monitoring procedures available?  
Yes  No

Are appropriate radioactive substance storage, waste and disposal systems in place?  
Yes  No

<table>
<thead>
<tr>
<th>Radiation Hazard</th>
<th>Risk (Harm)</th>
<th>Risk Rating (R)</th>
<th>Risk Control Measures</th>
<th>Risk Rating (R)</th>
<th>Trained in Control Measures</th>
<th>Y/N/NA</th>
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Signature:  Date:  Review Date:
### RISK ASSESSMENT FOR OUTDOOR/FARM HAZARDS

If ammonium nitrate fertilisers are used, refer to [UWS Laboratory Safety Guidelines](#) for further details.

Are established Outdoor and Farm safety emergency procedures available?

- Yes
- No

Are appropriate manual handling procedures in place for outdoor/farm machinery and/or animals/livestock?

- Yes
- No

Are adequate storage, handling and disposal procedures for herbicides, pesticides and other toxic substances?

- Yes
- No

Are SOPs available for:
- Farm machinery? Please specify: N/A
- Workshop machinery? Please specify: N/A
- Animal/Livestock Handling? Please specify: N/A
- Spraying with pesticides/herbicides? Please specify: N/A

Are manufacturer’s operating instructions available for all outdoor and farm equipment or machinery?

- N/A
- Yes
- No

Is all power driven machinery and equipment securely guarded? (e.g., sprayers, slashers, mowers, forklifts etc)

- N/A
- Yes
- No

Are tractors fitted with ROPS (roll over protection structures)?

- N/A
- Yes
- No

Is there a regular maintenance or service schedule for outdoor and/or farm machinery?

- N/A
- Yes
- No

Are all users of motorised machinery or vehicles licensed and operators trained?

- N/A
- Yes
- No

Is appropriate PPE available for the task?

- N/A
- Yes
- No

(eg hats, riding helmets, safety glasses or goggles, breathing apparatus, hearing protection, leather gloves, earplugs or earmuffs, steel toecap boots etc)

<table>
<thead>
<tr>
<th>Outdoor/Farm Hazard</th>
<th>Risk (Harm)</th>
<th>Risk Rating (R)</th>
<th>Risk Control Measures</th>
<th>Risk Rating (R)</th>
<th>Trained in Control Measure</th>
<th>Y/N/NA</th>
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</table>

Signature: 
Date: 
Review Date: 

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9 of
For further information see UWS Farm Safety Guidelines (http://www.uws.edu.au/about/adminorg/corpserv/ohr/occupationalhealthsafetyandwelfare/uwsohp olproc/ohsindex)
RISK ASSESSMENT FOR FIELDWORK HAZARDS
Is the fieldwork classified as **LOCAL** fieldwork?

Yes   No

If ‘Yes’ proceed to Risk Assessment Table for Fieldwork Hazards and see UWS Fieldwork Safety Guidelines Section 3.3 and Attachment 1.

(Is URL)

Is the fieldwork classified as **REMOTE** fieldwork?

Yes   No

If ‘Yes’ continue risk assessment below:

Outline the Fieldwork Activity:

Name of designated ‘Fieldwork Supervisor’ leading the fieldtrip:

Name of designated contact person within UWS and/or elsewhere not involved in the fieldtrip:

Contact details of nearest emergency services and/or hospital:

Have all staff/students/volunteers completed a “Fieldwork Health & Safety Acknowledgement Form”   Yes   No

Is there a reliable means of communication if in a remote area?

Yes   No

- (eg mobile/sat. phone, radios, GPS for boats & land vehicles)

Are all staff & students trained in the various operations and emergency procedures of the fieldtrip?

Yes   No

Is there a portable First Aid Kit (containing appropriate supplies) available for the fieldtrip?

Yes   No

If ‘No’ each Dept./School should configure their own specific First Aid Kit taking into account potential hazards/injuries as detailed in RA

Name of trained First Aid Officer (Senior First Aid level) attending the field trip:

Are there appropriate SOPs for working in sun, heat, wet, cold, and/or windy conditions on the fieldtrip?   Yes   No

Is there special safety equipment required for the fieldtrip? (see Fieldwork Safety Guidelines section 5.2.1)   Yes   No

If ‘Yes” please specify:

Are there any vehicles including 4WDs being used on the trip?

Yes   No

If ‘Yes’ see Fieldwork Safety Guidelines section 4.5.

State type of vehicle and name of licensed and appropriately trained driver(s):

Does the fieldtrip involve the use of boats?

Yes   No

If ‘Yes’ boating fieldtrips must comply with Maritime legislation see NSW Safe Boating Handbook

Name of licensed and trained personnel:

List specific hazards that may be present in the fieldwork in table following and continue risk assessment procedure.
<table>
<thead>
<tr>
<th>Fieldwork Hazard</th>
<th>Risk (Harm)</th>
<th>Risk Rating (R)</th>
<th>Risk Control Measures</th>
<th>Risk Rating (R)</th>
<th>Trained in Control Measures Y/N/NA</th>
</tr>
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</table>
Laboratory Risk Assessment Guidance Notes

1. The Risk Rating ($R^1$ and $R^2$) is determined using the Risk Assessment Table below.

   For each hazard, using the Risk Assessment Table, record the outcomes or adverse consequences (AC) – i.e. how severely could it harm someone if they are exposed to that hazard? Consider the worst-case scenario. In the column ‘AC’, record A, B, C or D as follows:
   
   - **A**: fatality, etc
   - **B**: long-term illness, etc
   - **C**: medical attention, etc
   - **D**: first aid needed, etc

   Then, again using the Risk Assessment Table, judge the probability ($P$) or likelihood of each consequence occurring. In the column ‘P’, record I, II, III, or IV as follows:
   
   - **I**: very likely
   - **II**: likely
   - **III**: unlikely
   - **IV**: rare

   Using the Risk Assessment table, determine the Risk Rating for each hazard, and record the priority for action (T, M, or L) in the column ‘R’. The risk rating number, from 1 – 6, indicates the level of priority i.e. it shows how important it is to do something about the hazard:
   
   - **T**: Top priority
   - **M**: Medium priority
   - **L**: Low priority

   All hazards must be addressed using the hierarchy of control measures in the following order of priority - elimination, substitution, isolation, engineering, administrative, personal protective equipment (PPE) – (refer to the UWS “Hazard Identification, Risk Assessment and Control Procedure”). The best approach will be to use a combination of any or all of the control measures.

   Top priority hazards must be isolated and fixed immediately. It is extremely important to do something about this hazard as soon as possible. Procedures using such hazards should not be allowed to continue.

   The priority rating for medium and low priority hazards should be reduced to the lowest possible number (risk) before proceeding. Laboratory environments are inherently potentially dangerous and there will always be a level of risk associated with the work undertaken. You will need to make a judgement as to whether the level of risk is acceptable given a defined set of circumstances.

   $R^1$ refers to the Risk Rating before risk control measures have been determined.

   2. $R^2$ refers to the Risk Rating after control measures have been determined and implemented.
3. All personnel involved in the procedure must be satisfactorily trained in the required control measures. Such measures include engineering controls (e.g. containment, fume cupboards, isolation), administrative procedures (e.g. written safe operating procedures, job rotation to restrict hours worked in hazardous situations, appropriate staff training), use of personal protective equipment (e.g. gloves, safety glasses, respirator, laboratory coat, safety boots).

4. The Review Date. Regular monitoring and review is required to assess the effectiveness of the hazard assessment and control measures. A risk assessment must be undertaken for all new procedures, when there are substantial changes to the workplace or procedure, when new equipment is used, when new or relevant information regarding health and safety becomes available from an authoritative source, after an incident, accident or workplace illness, when there is evidence that the assessment is no longer valid, or 5 years has elapsed.

5. Please specify if a specific procedure for spill, leak or emergency is required, and state its nature. For example, some chemicals required specific first aid or spill procedures.

6. For procedures covered by this risk assessment that have been given approval by the UWS Biosafety and Radiation Safety Committee (BRSC), attach a copy of the application to this form. Continue to complete the risk assessment for any hazards, procedures or other details not covered by the BSRSC application.

7. Biological Hazards include microbiological hazards, pathogenic organisms, genetically modified organisms (GMOs), human tissue/fluid, animal tissue/fluid, and carcinogenic/mutagenic/teratogenic/allergenic and zoonotic hazards.

8. All work involving the use of ionising radiation sources must have approval from the UWS Biosafety and Radiation Safety Committee (BRSC) before commencement. If the procedure covered by this risk assessment has approval from the BRSC, specify the application number and date of approval as indicated. For work with all other sources of radiation, continue to complete the risk assessment.

9. Radiation Hazards include X-rays, gamma rays, alpha particles, beta particles, neutrons, protons, ultraviolet radiation, high intensity visible light sources, lasers, infrared radiation, radio-frequency radiation, acoustic and ultrasonic radiation (AS2243.4-1998 and AS 2243.5-2004).

10. Outdoor/farm hazards refer to all such work conducted on UWS campuses. Outdoor work conducted off campus should be considered in the Fieldwork section.

11. Fieldwork is any work, study or research authorised by the University and undertaken by staff, postgraduate or undergraduate students or authorised volunteers at sites other than the campuses of the University.

12. Local Fieldwork involves visits to shops, factories, buildings, galleries, hospitals etc, within the Sydney metropolitan area.

13. Remote Fieldwork is fieldwork in areas where it would be difficult to summon help and/or emergency assistance eg inland waterways/estuaries, woodlands, ocean, geological/mine sites, and off-road areas.

Signature: Date: Review Date: 
RISK ASSESSMENT TABLE

How dangerous is the hazard you’ve found? For each risk associated with a hazard think about:
1 – How severe are the adverse consequences or outcomes (AC) if exposed?
2 – How likely or probable (P) is it to occur?

<table>
<thead>
<tr>
<th>PROBABILITY (or likelihood)</th>
<th>I – Very likely</th>
<th>II – Likely</th>
<th>III – Unlikely</th>
<th>IV – Rare</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Could happen any time</td>
<td>Could happen sometime</td>
<td>Could happen but very rarely</td>
<td>Could happen but probably never will</td>
</tr>
<tr>
<td>A Fatality or permanent disability, or property or environmental damage over $50,000</td>
<td>1</td>
<td>1</td>
<td>2</td>
<td>3</td>
</tr>
<tr>
<td>B Long term illness or serious injury, or property or environmental damage between $5,000 and $50,000</td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
</tr>
<tr>
<td>C Medical attention and several days off work, or property or environmental damage between $500 and $5,000</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
</tr>
<tr>
<td>D First aid needed, or property or environmental damage up to $500</td>
<td>3</td>
<td>4</td>
<td>5</td>
<td>6</td>
</tr>
</tbody>
</table>

The numbers below show you how important it is to do something, and the action to take:
1 & 2 Top Priority (T) Eliminate or isolate the hazard immediately. Must fix the cause(s) immediately.

3 & 4 Medium Priority (M) Must reduce the risk to the lowest possible level using hierarchy of control measures. Regularly monitor the cause(s) and hazard to ensure level of risk remains acceptable.

5 & 6 Low Priority (L) Reduce the risk further if possible and manage by routine procedures. Regularly monitor the cause(s) and hazard to ensure level of risk remains acceptable.