

WHS F029 Job Safety Analysis (JSA)

Title	Handling Archaeological Asbestos Fragments – Non-friable and volume less than 10m2		
School/Business Unit	Humanities	Location (building/lab/ workshop if applicable)	

JSA Development Date	9 June 2017	JSA Development Team	Kim Newman
JSA Review Date	9 June 2020		

Relevant Australian Standards / Codes of Practice / Legislation

- Code of Practice on how to safely remove asbestos

Relevant Safety Data Sheets (can be obtained via UNE subscription to ChemWatch)

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Plant & Equipment Required

- Warning signs and/or barrier equipment
- Bucket of water and/or misting spray bottle
- Suitable asbestos waste container

















Licenses Required

- If less than 10m2 no licence required

Competencies Required

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PPE Required

								
	Dust Mask	Face Shield	Foot Protection	Hair Net	Protective Clothing	Respirator	Sun Protection	Breathing Apparatus
Compulsory	X		X no laces		X			
As needed						X		
								
	Hand Protection	Hearing Protection	Safety Glasses	Safety Harness	Safety Helmet	Safety Vest	Apron/Lab Coat	Welding Mask
Compulsory	X		X					
As needed								

Additional PPE/Notes

Note

If using a glove bag a P1 filtered respirator and disposable coveralls need to be worn as a minimum in case a bag ruptures or leaks

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- Disposable coveralls rated to type 5, category 3 (prEN ISO 13982-1) or equivalent

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Job Steps				
Job Step	Potential Hazards	Risk Score*	Controls	Residual Risk*
Visually determine that the amount of asbestos is less than 10m2 and not friable Note: <u>DO NOT</u> <ul style="list-style-type: none"> • Use Trowel • Touch 	Touching could disturb fibres	4	Asbestos is not to be touched during initial visual assessment	2
Limit all access to the area containing asbestos	People unknowingly coming into contact with asbestos	4	signs and/or barricades	2
Conduct a risk assessment for the specific situation including all related work activities and environments. This will dictate removal methodology	Situation specific hazards could put a worker at risk	6	Risk assess the specific situation to determine removal methodology	4
ALL specified PPE is to be worn	No PPE will expose you to the asbestos dust particle	7	As far as reasonably possible this will reduce exposure to asbestos particles	4
Remove asbestos Note: <u>DO NOT USE</u> <ul style="list-style-type: none"> • high-speed abrasive power and pneumatic tools • brooms and brushes • high-pressure water spray, jets, power or similar tools or • compressed air 	Fibres could be disturbed during removal	7	<u>Glove Bag</u> Used to cover small jobs. Still requires either the wet spray of Dry Method – Minimum of P1 mask and overalls required (Refer to the CoP Section 6.2) <u>Wet Spray Method</u> removal is the preferred method of removal if deemed safe to do so during the risk assessment phase (Refer to the CoP Section 4.3) <u>Dry Method</u> may be required because of lack of water available at site or electrical equipment in the vicinity (Refer to the CoP Section 4.3) *Done within the Asbestos removal work area	4
Asbestos fragments are to be placed into a suitable asbestos container	Fibres could be disturbed during removal	7	Fragment are to be placed directly into bag *Done within the Asbestos removal work area	4
Decontamination All contaminated items, tools, equipment and clothing	Fibres could still be attached and removed with items	7	Items are to be wiped down with a a wet disposable cloth. They are only to be used once and not wadded up or reduced into water buckets *Done within the Asbestos removal work area	4
Decontamination Personal decontamination	Fibres could still be attached and removed with items	7	Personal decontamination involves removal of all visible asbestos dust. Only do personal decontamination AFTER all other decontamination work *Done within the Asbestos removal work area	
Disposable PPE to be removed and placed into asbestos container	Fibres could still be attached and removed with items	7	Before leaving the designated asbestos area all disposable PPE is to be removed *Done within the Asbestos removal work area	4

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Seal bag	Fibres could still be attached and removed with items	7	Disposal procedure (adapted from the CoP section 4.6) <ul style="list-style-type: none"> • 200um thick bag • Wipe external surface of bag and dispose of cloth in bag. • Seal with duct tape • Place into a second bag • Seal with duct tape • Label as 'Asbestos Waste' <p>*Done within the Asbestos removal work area</p>	4
Dispose of Material Note: <ul style="list-style-type: none"> • Asbestos material CAN NOT be kept in Archaeological collections • Record any information necessary through the containment bag and then ensure it is disposed of immediately 	Asbestos fibre could contaminate the environment or other people if not disposed of appropriately	7	Dispose of Material soon as is practicable at a licensed asbestos disposal site	2

* The risk score and residual risk is determined by following steps 1-4 below.

STEP 1		STEP 2			
Determine likelihood of occurrence		Determine severity/consequence/cost			
Risk Score Calculator: Definition of Terms					
Rare	Likely to occur here only in very exceptional circumstances	Insignificant	No personal injury; and/or No adverse media attention; and/or Financial cost under \$2000		
Unlikely	Could occur here at some time	Minor	Minor personal injury (first aid treatment); and/or Adverse Local Media Coverage; and/or Cost \$2000-\$50,000		
Possible	May occur here at some time	Moderate	Serious personal injury (medical treatment); and/or Adverse Capital City Media Coverage; and/or Cost \$50,000-\$250,000		
Likely	Will probably occur here (has happened before)	Major	Serious Personal Injury/long term absence; and/or Adverse & Extended National media Coverage; and/or Cost \$250,000 - \$1m		
Almost Certain	Is expected to occur here in most circumstances	Catastrophic	Fatality(ies)/ long term impairment; and/or Government intervention; and/or Financial cost more than \$1million		
STEP 3: Determine Risk Score					
Risk Score Calculator: Matrix					
	Severity/Consequence/Cost				
Likelihood	Insignificant	Minor	Moderate	Major	Catastrophic
Rare	2	3	4	5	6
Unlikely	3	4	5	6	7
Possible	4	5	6	7	8
Likely	5	6	7	8	9
Almost Certain	6	7	8	9	10
STEP 4: Determine Risk Score Response Priority					
Risk Score	Risk Score Response				
9-10	Severe risk. Highest of priorities. Must be rectified immediately.				
8	Very high risk. Requires urgent attention for quick resolution. Temporary controls to be implemented.				
6-7	Moderate to high risk. Prompt planning and resolution required with consultation.				
4-5	Low to moderate risk. Consult and identify controls that are reasonably practicable				
3	Verv low risk. Minor issue for monitoring				

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All completed JSAs are to be recorded in TRIM Container A16/3851 utilising a TRIM license in your School/Business Unit. Only the HR Team is able to view records in this container. Completed JSAs are to be published on Safety Hub for ongoing utilisation.

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