









Job details

Job description	Lifting Portable Buildings	SWMS Number	201074-SE-SWM-0025
Author(s)	Mike Bentley	Project	CBESS
Review team	Mike Bentley, Alex Yates, Adrian Hunt	Location	Site Wide
SWMS approved by	Alex Yates	Area	
Skills / Qualifications / Licences required	High Risk Work License, Crane License, Dogger License		
Plant / Equipment required	Crane, Lifting Rigging Equipment		
Permits required	W@H Permit, VA Permit if required		
Applicable Legislation	WA – Work Health and Safety Act 2020, Work Health and Safety (General) Regulations, Work Health and Safety (Mines) Regulations, Work Health and Safety (Petroleum and Geothermal Energy Operations) Regulations 2022, Mines Safety and Inspection Act 1994, Energy Safety Act 2006, Energy Safety Regulations 2006, Petroleum and Geothermal Energy Resources Act 1967, Electricity Act 1945, Electricity Regulations 1947, Electricity Licensing Regulations 1991, Environmental Protection Act 1986, Environmental Protection Regulations 1987. COP - Managing the risk of falls at workplaces, Hazardous manual tasks		
Applicable Australian Standards	ASNZ 1418.10:2011 Cranes, Hoists & Winches – MEWP's, AS10896.1:2019 – Rough-terrain trucks – Safety requirements and verification, AS1418.5:2013 Cranes Hoists & Winches – Mobile Cranes, AS2550.1-2011 – Cranes Hoists & Winches – Safe use -General Requirements, AS2550.10:2016 – Cranes Hoists and Winches – Safe Use – MEWP's, AS2550.19:2007 Cranes Hoists & Winches – Safe Use – Telescopic Handlers, AS2550.5:2016 Cranes Hoists & Winches – Safe Use – Mobile Cranes.		

PPE (tick required)										As required	
	Uniform <input checked="" type="checkbox"/>	Footwear <input checked="" type="checkbox"/>	Eyewear <input checked="" type="checkbox"/>	Gloves <input checked="" type="checkbox"/>	Hard hat <input checked="" type="checkbox"/>	High-Viz <input checked="" type="checkbox"/>	Ear wear <input type="checkbox"/>	Dust mask <input type="checkbox"/>	Fall arrest <input type="checkbox"/>	Other <input type="checkbox"/>	Other <input type="checkbox"/>

Potential hazards associated with the job

Category	Hazard	Category	Hazard	Category	Hazard
Working at heights	<input type="checkbox"/> Ladders <input checked="" type="checkbox"/> Lifting equipment, scissors / EWP's <input type="checkbox"/> Scaffolding <input type="checkbox"/> Stairs / platforms <input checked="" type="checkbox"/> Working at height <input checked="" type="checkbox"/> Working above others <input type="checkbox"/> Multiple work requiring EWP's	Pressure	<input type="checkbox"/> Competitive pressures <input type="checkbox"/> Compressed gases / air <input type="checkbox"/> Fluid <input type="checkbox"/> High pressure steam <input type="checkbox"/> Hydraulic <input type="checkbox"/> Water	Workplace	<input type="checkbox"/> Asbestos <input type="checkbox"/> Confined space / void space <input checked="" type="checkbox"/> Falling objects <input type="checkbox"/> General access <input checked="" type="checkbox"/> Housekeeping <input type="checkbox"/> Illumination / lighting <input type="checkbox"/> Noise, i.e. Exposure / nuisance <input type="checkbox"/> Poor ventilation <input type="checkbox"/> Protrusions <input type="checkbox"/> Restricted visibility <input type="checkbox"/> Restricted work area <input checked="" type="checkbox"/> Slip & trip hazards <input type="checkbox"/> Unauthorised personnel <input type="checkbox"/> Unlabelled controls <input type="checkbox"/> Vibration <input type="checkbox"/> Wet / slippery
	Working with Electricity		<input type="checkbox"/> Static electricity/Induction <input type="checkbox"/> Sub-stations / switch rooms <input type="checkbox"/> Underground cables <input type="checkbox"/> Contact with electrical equipment <input checked="" type="checkbox"/> Electrical cables <input type="checkbox"/> High voltage equipment <input checked="" type="checkbox"/> Overhead cables <input type="checkbox"/> Non-compliant earths (tagged/tested)		Human factors
Radiation	<input type="checkbox"/> Infra-red	Using mobile plant	<input checked="" type="checkbox"/> Traffic / pedestrian interaction / collision		

Category	Hazard	Category	Hazard	Category	Hazard
	<input type="checkbox"/> Microwaves <input checked="" type="checkbox"/> Ultra-violet light, ie, sun <input type="checkbox"/> X-ray <input type="checkbox"/> Laser		<input checked="" type="checkbox"/> Uneven terrain <input checked="" type="checkbox"/> Unlicensed / untrained operators <input checked="" type="checkbox"/> Vehicle instability <input type="checkbox"/> Vehicle access		<input type="checkbox"/> Wind / storm activity <input type="checkbox"/> Fog / mist / smoke <input type="checkbox"/> Working in isolation <input type="checkbox"/> Dust / particulates
Mechanical	<input type="checkbox"/> Abrasive blasting / grinding <input type="checkbox"/> Auto-start equipment <input type="checkbox"/> Conveyors <input checked="" type="checkbox"/> Equipment failure <input type="checkbox"/> Hand and power tool <input checked="" type="checkbox"/> Impact and crushing areas <input checked="" type="checkbox"/> Pinch / cutting points <input checked="" type="checkbox"/> Residual / stored energy <input checked="" type="checkbox"/> Uncontrolled movement <input type="checkbox"/> Unguarded moving parts <input type="checkbox"/> Welding or cutting	Manual handling (ergonomic)	<input checked="" type="checkbox"/> Awkward / unbalanced load <input type="checkbox"/> High / low reach <input type="checkbox"/> High force / heavy loads <input type="checkbox"/> Lighting <input type="checkbox"/> Over exertion / fatigue <input type="checkbox"/> Poor design / layout / surface <input type="checkbox"/> Repetitive movements	Chemical	<input type="checkbox"/> Chemicals / reagents <input type="checkbox"/> Fumes / vapour / mist (e.g. SF6) <input type="checkbox"/> Flammable gases <input type="checkbox"/> Handling flammable materials <input type="checkbox"/> Hazardous chemical exposure <input type="checkbox"/> Solid chemical <input type="checkbox"/> Splashes / burns <input checked="" type="checkbox"/> Spills to ground or work area
		Environment	<input type="checkbox"/> Air contamination <input type="checkbox"/> Soil contamination <input type="checkbox"/> Stormwater contamination <input type="checkbox"/> Waste (effluent/hazardous)	Thermal	<input type="checkbox"/> Cold – ambient temperature <input checked="" type="checkbox"/> Heat – ambient temperature <input type="checkbox"/> Hot materials/fluids <input type="checkbox"/> Hot surfaces

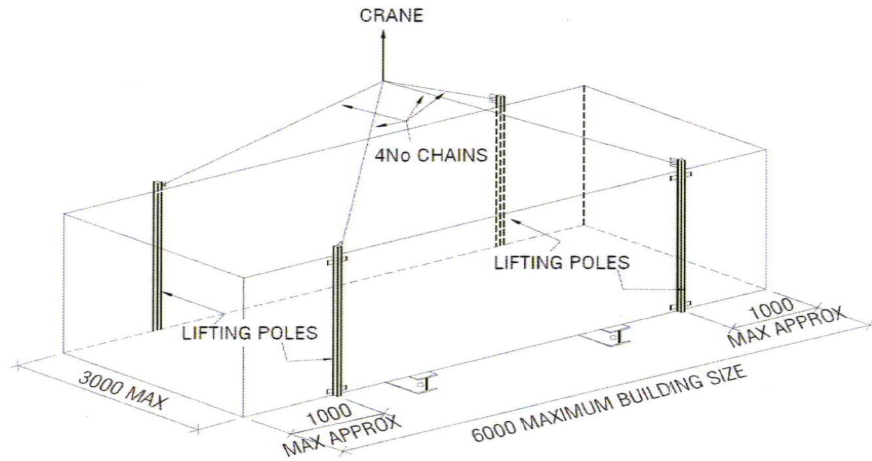
Safe Work Method Statement – Lifting Portable Buildings CBESS

Job Steps List the steps required to perform the job in the sequence they are carried out	Reference List the references for the required job step such as work instructions, client requirements etc	Hazards For each job step list the hazards that could cause injury when the task is performed	Initial Risk Rating	Control List the control measures required to eliminate or minimise the risk of injury arising from the identified hazards	Residual Risk Rating
Plan and prepare					
Receive Job Instructions	SCEE Project Safety Management Plan (SMP)	<ul style="list-style-type: none"> Insufficient/inaccurate information provided Information misunderstood 	5	<ul style="list-style-type: none"> Prestart conducted confirming work locations, and specifications Review instructions with Supervisor prior to beginning job Information to be available on load specifications 	2
Set Up Work Area	SCEE Work Instruction – Crane Activity	<ul style="list-style-type: none"> Personnel / Plant Interaction Contact with OH powerlines Ground Conditions Pinch Points Plant Failure 	9	<ul style="list-style-type: none"> Work area to be barricaded and all unauthorised personnel removed from area Personnel wearing hi-vis clothing All overhead powerlines to be identified and all equipment to remain outside of safe approach distances unless VA permit in place and lines de-energised and isolated prior to commencement of task. Crane operator to check ground conditions to ensure outriggers set up on solid ground – use base plants if required All unnecessary personnel to be removed from area Crane operator to conduct and record prestart inspection Crane operator to be licensed and VOC'd as required Two dogmen/riggers required for crane capacity > 70T 	2
Carry out the job					
Operating Crane	SCEE Work Instruction – Crane Activity	<ul style="list-style-type: none"> Incompetent operator 	9	<ul style="list-style-type: none"> Crane operators and dogmen to hold high risk work license, and be licenced and VOC'd as required. 	5
Directing Load/Crane Operator	SCEE Work Instruction – Crane Activity	<ul style="list-style-type: none"> Incompetent Dogman 	18	<ul style="list-style-type: none"> All personnel involved in the lifting of a load must hold a High Risk Work License in Dogging or Rigging. Dogging cannot be undertaken by a crane operator Dogman and crane operator to discuss and agree on communication signals prior to commencement of lift 	9
Lifting Load	SCEE Work Instruction – Crane Activity	<ul style="list-style-type: none"> Load falling Crushing Injuries Crane tipping over Electric Shock High Winds Heat Stress 	18	<ul style="list-style-type: none"> All lifting gear to be inspected before use. Any lifting gear that does not pass visual inspection should be tagged out of service immediately All buildings are to be lifted using all four outriggers that are integral to each chassis Chains from building outriggers must be arranged to provide an evenly distributed lift. This can be achieved with the use of spreader bars attached to the building by use of the correct lifting rigging systems No persons to walk under a suspended load at any time Lifting area to be barricaded and essential personnel only within barricaded area 	9

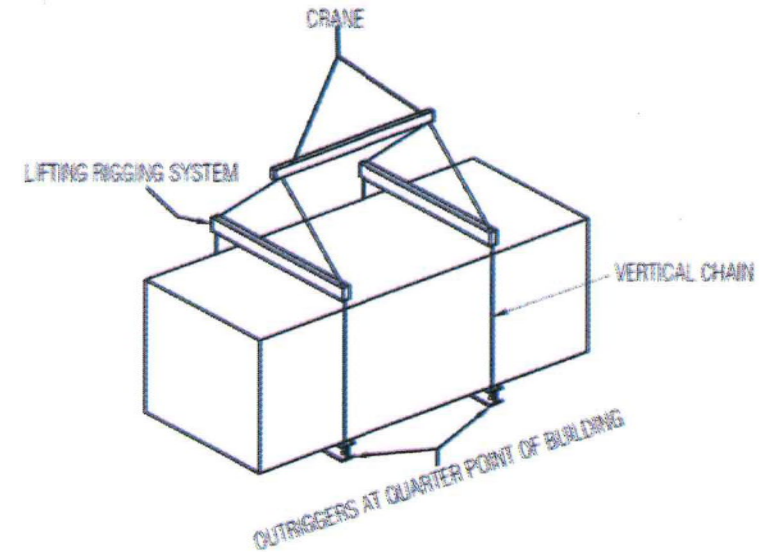
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			18	<ul style="list-style-type: none"> • Use tag lines where required (minimum 16mm diameter natural fibre) • Ensure weight of load is confirmed prior to lift • Do not operate the crane outside its lifting capacity, refer to load chart prior to commencement of lift • Ensure boom remains well clear of safe approach distances for any overhead powerlines • No lift to be undertaken in high winds, use crane only within known wind tolerances • Employees to undertake heat stress awareness training, new employees who have not acclimatised to be monitored • Sufficient drinking water and sunscreen to be available in the work area • 	9
Placement of Load	SCEE Work Instruction – Crane Activity	<ul style="list-style-type: none"> • Striking Workers • Damage to building 	18	<ul style="list-style-type: none"> • Load set down area to be barricaded • All non-essential personnel to be removed from the area • Continual communication between dogman/rigger and crane operator to ensure smooth placement of load • Placement to cease if any issues identified 	9
Job Specific Hazards and Controls – Work Crew to Complete this Section					
<ul style="list-style-type: none"> • Ground Conditions 					
<ul style="list-style-type: none"> • Live/Moving Equipment 					
<ul style="list-style-type: none"> • Obstructions 					
<ul style="list-style-type: none"> • Weather 					
Complete the job					
Remove Rigging Equipment	SCEE Work Instruction – Crane Activity	<ul style="list-style-type: none"> • Pinch / Crush Points • Hand / Finger Injuries 	9	<ul style="list-style-type: none"> • Crush / Pinch points to be identified and dogman/rigger to keep hands out of the line of fire • Gloves to be worn at all times 	2

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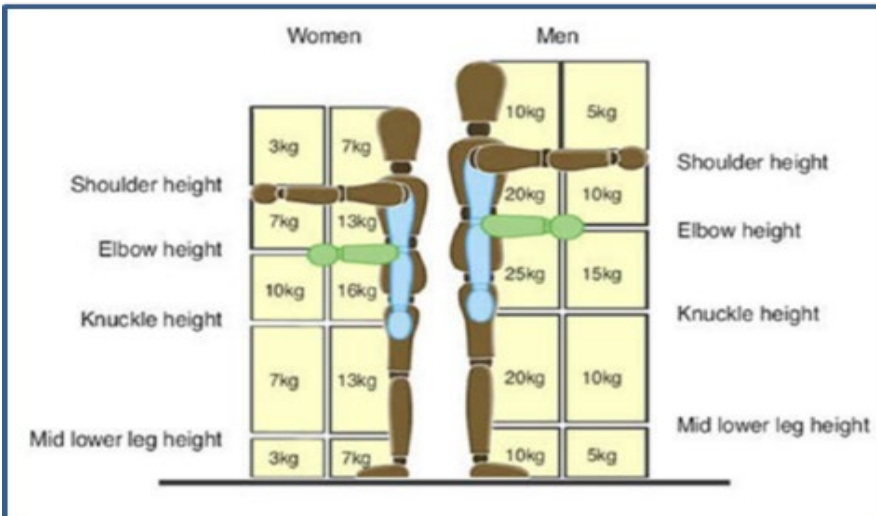
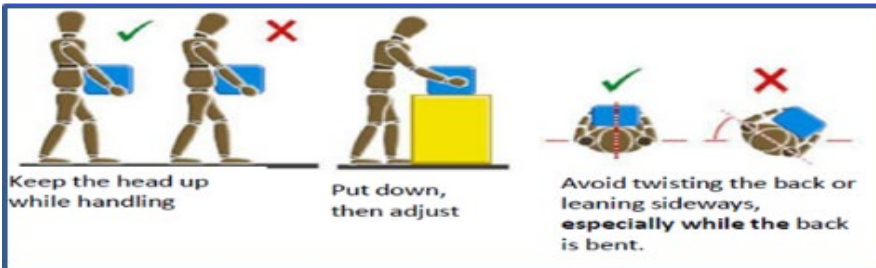
Option 1 – Lifting Poles attached to Building



Option 2 – Building Outriggers Used as Lifting Points



Manual Handling Techniques/Guide



EMERGENCY PREPAREDNESS

Medical Emergency Response

- Danger - Check for danger
- Response - Check for response
- Send - Send for help
- Airways - Check for blocked airway
- Breathing - Check for breathing
- CPR - CPR 30 compressions 2 breaths
- Defibrillation - Apply defibrillator (if available)

Electrical Medical Emergency Response

- Do not touch person in contact
- Warn others to stay clear
- Disconnect power source if possible
- Call emergency contacts immediately

If not possible to isolate energy

- Open LV Rescue Kit
- Place insulated gloves on
- Use insulated LV Hook to break contact between person and electricity

Medical attention must be sought for all electric shocks

Fire (Electrical)

- Rescue
- Alarm
- Contain Fire
- Extinguish (CO² or ABE Powder)
- Pull the pin
- Aim at the base of fire
- Squeeze the trigger
- Sweep base of fire



Contact with Electricity Mobile Plant (HV)

- Stay calm
- Stay within mobile plant (if safe to do so)
- Avoid touching anything metal within the cab
- Warn other to stay away (minimum 8 meters)
- Call emergency contacts immediately

If unsafe to remain in plant

- Do not touch metal when exiting
- Try to jump well clear landing with feet together
- Jump with both feet together until 8 meters away
- Do not touch any metal object within 8 meters of plant

Risk Matrix

Consequence					
	Health & Safety	Environment	Legal & Regulatory	Financial / Commercial	Reputation
Catastrophic	Fatality. Multiple fatalities. Serious safety breach leads to loss of multiple key employees or fatality	Severe damage to environmental / heritage damage	Imprisonment of officers, loss of Electrical Contractors Licence	Not meeting market set expectations by >30%	Permanent loss of strategic client, Systemic brand damage
Major	Multiple LTIs, permanent disabling injury.	Significant environmental / heritage damage. Costly clean up	Major ASX breach, loss of Electrical Contractors Licence, major breach of legal and/or regulatory requirements	Not meeting market set expectations by 10% -30%	Major brand damage
Moderate	Serious injury, Lost Time Injury (LTI)	Moderate effects on environment / heritage area. External assistance required for clean-up / remediation	Moderate breach of legal and/or regulatory requirements	Not meeting market set expectations by 5%-10%	Moderate brand damage
Minor	Medical treatment injury, restricted work injury	Minor short term damage to environmental / heritage area	Minor breach of legal and/or regulatory requirements	Not meeting market set expectations by <5%	Minor brand damage
Negligible	Minor injury at site, first aid treatment	Limited damage to area of no or low significance. Internal clean up	Minor breach of legal and/or regulatory requirements	N/A	Negligible brand damage

Likelihood					
	Rare	Unlikely	Possible	Likely	Almost Certain
Historical	Unheard of in the industry	Has occurred once or twice in the industry	Has occurred many times in the industry but not in the company	Has occurred once or twice in the company	Has occurred frequently in the company
Frequency (Continuous Operation)	Once every 10 years or more within SCEE	Once every 2 to 10 years within SCEE	Once every 1-2 years within SCEE	Once every year within SCEE	More than once each year within SCEE
Probability (single activity)	Rare	Unlikely to occur	May occur	Will probably occur	Will occur

Risk Matrix					
	Rare	Unlikely	Possible	Likely	Almost Certain
Catastrophic	11	16	20	23	25
Major	7	12	17	21	24
Moderate	4	8	13	18	22
Minor	2	5	9	14	19
Negligible	1	3	6	10	15

Legend		
	Operational	Corporate
Low 1 – 3	Acceptable with adequate controls.	Project/Functional Manager is responsible
Medium 4 – 10	Acceptable with adequate controls. Confirm that controls implemented have reduced risk to as low as reasonably practicable. Supervisor sign off on JHA required for tasks with residual risk that remains at this level.	Acceptable with *adequate controls. Responsibility of Operations /Divisional /Functional Manager.
High 11 – 19	Acceptable only if controls have been reduced as low as reasonably practicable. Site manager approval of controls for residual risks that remain at this level.	Only acceptable with *excellent controls. All treatment actions to be explored within 1 – 3 months. Responsibility of COO/CEO/MD.
Extreme 20 – 25	Risk needs to be reduced to a level as low as reasonably practicable. Project Manager and HSE Manager consultation is required for any tasks which have residual risk assessed at this level, divisional GM or higher approval required.	Only acceptable with *excellent controls. All treatment actions to be explored within 1 month. Responsibility of the Board.

*adequate controls = only what a reasonable person would be expected to do in the circumstances

*excellent controls = more than what a reasonable person would be expected to do in the circumstances



Safe Work Method Statement – Lifting Portable Buildings CBESS

We the undersigned, confirm that we have been consulted in the preparation of the SWMS nominated above and that the content has been clearly explained is understood and accepted. We also confirm that our qualifications to undertake this activity are current.

We clearly understand the controls in this SWMS must be applied as documented including our responsibilities for the implementation; otherwise work is to cease immediately.

Name	Signature	Date	Name	Signature	Date

Comments: _____
