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TRIM Ref: SWMS1430

Adopted: 14.07.2016

SAFE WORK METHOD STATE	MENT		Operation of Vehicle Mounted	d Crane	
Reference documents	Workplace	, Hazardous Manual Tasks, First aid in	Codes of Practice; How to manage Work Health Sa the workplace, Confined spaces, Construction Work Managing noise preventing hearing loss,		
SWI:	Vehicle Mo	ounted Crane,			
Training and Competencies	General co	enstruction induction card (white card),	Safework certificate of competency or equivalent		
Safety data Sheets					
Personal Protective Equipment	Hearing pro	otection, Face shield/eye protection, Sa	fety footwear, High visibility long sleeve shirt and tro	ousers, Sun sc	reen, Protective gloves, Hard hat,
Plant and Equipment	Vehicle mo	ounted crane,			
Inspection and Testing			ection as per manufacturers requirements		
Hazardous Chemicals and Dangerous Goods					
High Risk Work	☑ Where the	ere is a risk of a person falling more tres.	☐ On in or adjacent to roadways, railways, shipping lanes or other traffic corridor.		adjacent to water or other liquids s a risk of drowning.
Indicate if any of the HIGH risk activities are performed by	At workpl	aces where there is any movement mobile plant.	☐ Involving the use of explosives.	☐ In an area	where there are artificial extremes e.
workers	☐ On or nea	ar energised electrical installations	☑ Involving a trench or shaft if the excavated depth is more than 1.5 metres.	☐ On or nea	r pressurised gas distribution mains
		structural alterations or repairs that require upport to prevent collapse.	☐ Involving a confined space.		r chemical, fuel or refrigerant lines.
	☐ Involving	tilt-up or precast concrete.	☐ On telecommunications towers.	☐ Involving	diving.
	☐ Involving asbestos	removal or likely disturbance of	☐ In an area that may have a contaminated or flammable atmosphere.	is load-bearir	emolition of an element of a structure that og or otherwise related to the structural
	□ Involving	a tunnel.		integrity of th	e structure.
SWMS Prepared by:	Name and	d signature:			Date:
Authorised by:	Name and	d signature:			Date:
*SWMS are to be reviewed as per	the Docum	ent Control Procedure or when the	here has been a change to the Task / Proces	ss or Legisla	ntion.

Last Amended: 07.11.2019

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Version: 2



Job Step	Hazard	Risk	Initial Risk Rating E,H,M,L	Contro	Control Measures ols have been identified hierarchy of control	d using the	Responsibility Who	Residual Risk Rating E,H,M,L
Conduct a Site Specific Risk Assessment and induct staff, if necessary.	Unfamiliar worksite	- Muscle sprain - Cuts and abrasion - Broken bones	M	Assessme - Wear appr	opriate PPE – Traffic con gloves, hard hat, safety b	trol vest,	Supervisor and workers	L
	Emergency Lack of communication	- Death or serious injury	М	- Low Voltag	y Response First Aid Kit ge Rescue Kit – when app adio or mobile phone ained in emergency proce		Supervisor and workers	L
	Inclement weather	- Extremes of temperature	М	- Stop work	eather forecasts prior to st until conditions improve site before re-commencin	· ·	Supervisor and workers	L
	Uneven or slippery Ground	- Muscle sprain - Cuts and abrasion - Broken bones	М	and vehicle - Don't walk long grass - Don't drive	where you can't see firm	surface e.g.	Supervisor and workers	L
	Overhead obstruction - overhead powerlines - trees - overhanging structure	- Electrocution - Death or serious injury	Н	- Always use - Must be me up to 132k - Must be me transmissie - Must be me up to 132k - Must be me up those lister applied Off met When a crain observed powerlines	of obstructions take care to an observer/spotter ore than 3 m from overheavy ore than 6 m from high voon lines from 132-330kV ore than 8 m from lines over than 122-30kV ore than 132-330kV	ad powerlines oltage ver 330kV ces less than stances may be uirements are copriate training, ter of the distances can	Supervisor and workers	М
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Job Step	Hazard	Risk	Initial Risk Rating E,H,M,L	Control Measures Controls have been identified using the hierarchy of controls	Responsibility Who	Residual Risk Rating E,H,M,L
(Continued)	Excessive Exposure to UV	- Sunburn - Skin cancer	L	- Wear wide brimmed hats or brim attachment, long sleeved shirt and long trousers - Sunscreen - Work in shade if possible - Plan work when UV index is lowest - Take regular breaks in shade	Supervisor and workers	L
	Working at heights around confined spaces	- Death or serious injury	н	- Use PPE e.g. harness, fall arrestor - Do not extend beyond railings - Follow confined spaces procedure	Supervisor and workers	М
	Inappropriate Manual Handling (chains & slings)	- Muscle sprain (limbs or torso)	М	Undertake training in manual handling techniques Task rotation, muscle stretching exercises, use correct equipment	Supervisor and workers	L
	Moving Traffic or Plant	- Death or serious injury	н	Record TCPs as per attached SWP. Implement approved or modified TCP If necessary, implement VMP Use only trained traffic controllers	Supervisor and workers	М
Crane pre operation check Crane condition Crane function Lifting equipment Attachments	Equipment Malfunction	- Muscle sprain (limbs or torso) - Cuts and abrasions - Entrapment	М	The crane Pre Operation Inspection Checklist/ Log book shall be completed to determine if any defects have been reported and/or repairs carried out. Report/ repair any defects	Competent operator	L
Crane set-up	Equipment Malfunction or misuse	- Muscle sprain (limbs or torso) - Cuts and abrasions - Entrapment	M	 The vehicle loading crane is to be positioned and set up on stable ground, or use pig-sty packing if necessary The crane is to be positioned as close as possible to the load to be lifted. Where possible keep the load on the uphill side. Always apply the hand brake. Set up the crane for lifting, stabilisers fully extended, and switch on rotating light. The crane operator is in control during any operations. 	Competent operator	L
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Job Step	Hazard	Risk	Initial Risk Rating E,H,M,L	Control Measures Controls have been identified using the hierarchy of controls	Responsibility Who	Residual Risk Rating E,H,M,L
Crane set-up (Continued)				 The ignition key and the isolation switch (if electric powered crane) to the truck are to be removed and carried by the crane operator when he leaves the vehicle. When any load shifting is to take place, no employee shall be attached to the crane, on the load, or beneath the load. If crane malfunctions lower load if possible, isolate / lock out and make as safe, contact appropriate qualified personnel for repair 		
Crane operation Controls in bold to be followed by operators of Vehicle Mounted Crane less than 10 metric tonne without: CV and/or C2 Safework Certificate of Competency Safework certificate of competency in 'dogging'	Equipment Malfunction or misuse	- Muscle sprain (limbs or torso) - Cuts and abrasions - Entrapment - Struck by falling object	н	Load is to be lifted onto the vehicle or attached trailer, then, if necessary, to the ground. The ignition key and the isolation switch (if electric powered crane) to the truck are to be removed and carried by the crane operator when he leaves the vehicle. When any load shifting is to take place, no worker shall be attached to the crane, on the load, or beneath the load. Crane operators must maintain a line of sight with the load at all times. If this is not possible, the person who guides the load must have Safework Certificate of Competency in 'dogging' and both must be familiar with signals hand and whistle.	Competent operator	M
	Inappropriate load estimating	- Death or serious injury - Crane failure	н	Crane operators who do not have a Safework certificate of competency are not permitted to calculate or determine lifting slings/equipment required to lift/move loads. Certified operators use tables provided on lifting gear and cards provided to select lifting equipment.	Competent operator	М
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Job Step	Hazard	Risk	Initial Risk Rating E,H,M,L	Control Measures Controls have been identified using the hierarchy of controls	Responsibility Who	Residua Risk Rating E,H,M,L
Crane operation (Continued)				Make sure the extended boom and the load is within the SWL limits of the crane by referring to the load chart on crane body, BEFORE LIFTING THE LOAD		
				Should the mass of the load be greater than the SWL of the crane and the truck cannot be moved closer to the load to reduce the boom length, the lift should be abandoned and a crane with a greater lifting capacity obtained		
				IMPORTANT : Ensure that when checking SWL on load chart the greater of the two distances, truck and loading point or truck and landing point, is used.		
				The use of rated chains and slings to rated lifting points of a known load mass with a stable centre of gravity does not require 'Slinging Techniques'		
				A test lift should be made with a shortened boom and the load meter used to measure mass If crane malfunctions isolate and make as safe as possible, contact appropriate qualified personnel for repair.		
	Load Shifting	Death or serious injury	н	If load shifts, immediately lower load to ground and reposition slings to balance and secure load.	Competent operator	М
	Night work	Death or serious injury	н	- Don't work alone - Refer to Remote Area procedures and policies - Light area as well as possible - If lighting insufficient, do not work	Supervisor and Competent operator	М
	Problem with lift - sinking stabiliser pads - instability of truck - excessive load movement	Death or serious injury Crane overload	н	- Immediately lower the load and take necessary corrective action - Chock and pig-sty or relocate truck if stabiliser pads are sinking - Select appropriate lifting gear - Make certain all slings and chains are in good condition.	Competent operator	М

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Job Step	Hazard	Risk	Initial Risk Rating E,H,M,L	Control Measures Controls have been identified using the hierarchy of controls	Responsibility Who	Residual Risk Rating E,H,M,L
Crane operation (Continued)	- Equipment Misuse - Use in a manner other than that designed for	- Death or serious injury - Crane overload	н	Under no circumstances should the outrigger (stabiliser) legs be used to lift a load Under no circumstances should the crane be used t drag the load across the ground.	Supervisor and competent operator	
	- Lifting pit lids	- Death or serious injury - Crane overload	н	Identify weight by stamped SWL/kg if available If any calculations are required for slinging a particular lid, a dogman is to be used to calculate th size and number of slings to be used for a particular job. Inspect lid for cracks and lifting points for defects. A tag line attached to the lid may assist in stabilising during slewing. Slew load close to ground and lower to ground. Carry out required work, at no time getting hands or fingers into pinch points between the lid and ground and the slings. Lift and slew lid back into position and lower into place, remove lifting equipment Erect appropriate barricades around any unfinished work that is left unattended for any period of time If any difficulty develops, as the job progresses that can't be resolved, contact the supervisor for support	it Competent operator	M
Completion of work	Equipment Damage	- Muscle sprain (limbs or torso)		Post operation check On completion of work all equipment is to be correctly stowed in vehicle.	Competent operator	L
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Job Step	Hazard	Risk	Initial Risk Rating E,H,M,L	Control Measures Controls have been identified using the hierarchy of controls	Responsibility Who	Residual Risk Rating E,H,M,L
			M	Also any lifting attachments which have been used must be removed from the boom if necessary and securely attached to the correct position on the vehicle. Any defects/problems with the equipment or work environment are to be reported to the supervisor promptly. Council's Workshop is to carry out repairs and scheduled maintenance required for the crane by the manufacturer or supplier of the unit. No modifications are to be carried out on the crane's structure or mountings (this includes transferring the crane from one chassis to another) without reference to: • The crane manufacturer for recommendations for the modifications, or; • Fleet Management /engineer who is competent for the class of work provides details/instructions on how the work is carried out and the section head for the crane authorises this action.		
	Manual Handling (chains & slings)	- Muscle sprain (limbs or torso)	М	Undertake training in manual handling techniques storage of chains & slings	Supervisor and competent operator	L

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		E=EXTRE	ME H=HIGH M=MEDIL	JM L=LOW	
LIKELIHOOD How likely is it to	←	CONSEQUENCE	S – How severely could	it affect health and safe	ty? →
happen? ↓	CATASTROPHIC Kill or cause Permanent Disability	MAJOR Serious Illness or Injury	MODERATE Medical Attention, Time off Work	MINOR First Aid Required	INSIGNIFICANT No Injuries
ALMOST CERTAIN Is expected to occur	E	E	н	н	M
LIKELY Will probably occur	E	н	н	М	М
POSSIBLE Might occur	н	н	н	M	L
UNLIKELY Could occur	н	M	М	L	L
RARE May occur only in exceptional circumstances	н	M	М	L	L

Risk Level	Required Action
Extreme	Act immediately: The proposed task or process activity must not proceed. Steps must be taken to lower the
Extreme	risk level to as low as reasonably practicable using the hierarchy of controls.
	Act today: The proposed activity can only proceed, provided that:
	The risk level has been reduced to as low as reasonably practicable using the hierarchy of controls.
High	The risk controls must include those identified in legislation, Australian Standards, Codes of Practice etc. and
підіі	The document has been reviewed and approved by the supervisor and
	A Safe Working Procedure or Safe Work Method has been prepared and
	The supervisor must review and document the effectiveness of the implemented risk controls
	Act this week: The proposed task or process can proceed, provided that (i) The risk level has been reduced
Medium	to as low as reasonably practicable using the hierarchy of controls and
weatum	The document has been reviewed and approved by the supervisor and
	A Safe Working Procedure or Safe Work Method has been prepared.
Low	Act this month: Managed by local documented routine procedures which must include application of the
Low	hierarchy of controls.

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Acknowledgement register

All workers are to sign this register to indicate they have read and understood this SWMS prior to commencing work.

Name	Signature	Date	Name	Signature	Date

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