



Vehicle Loading Cranes

Warning

You cannot undertake this activity in the rail corridor unless you have completed a pre work brief and work site protection plan.

Reference should also be made to the [Protocol for Entering the ARTC Rail Corridor](#) and the [Business Rules for Working in the ARTC Rail Corridor](#)

Minimum Personal Protective Equipment (PPE) must also be met in line with the [Personal Protective Equipment \(PPE\) Work Instruction](#).

Work Activity:	Vehicle Loading Cranes		WMS No: WHS-WI-400
Coverage:	ARTC employees, and contractors directly managed by ARTC		Version No: 4.0
Developed by:	Corporate Work Health and Safety Manager	Approved by:	Executive General Manager Enterprise Services Date Approved: 7 May 2016

<i>What are the tasks involved?</i>	<i>What are the hazards and risks?</i>	<i>What are the control measures?</i>	<i>Related Documents</i>
Position Vehicle	Unstable ground Obstructions to lifting crane. Unintended vehicle movement Rail and/or Road Traffic	Position vehicle on stable, level ground. Ensure the ground can support the vehicles total potential weight. (consider the vehicle, its attachments, and the loads to be lifted) Check for potential crane obstructions. (such as signals, power lines, rail and/or road traffic) Secure vehicle against unintended movement. (apply brakes, and if necessary chock the wheels) Ensure appropriate traffic control measures are in place. (restrict movement of rail and/or road traffic near the vehicle)	Operating Manual and/or Safe Use Instructions (for the vehicle loading crane)
Plan the lift	Unsafe lifting method attempted	Determine the lifting method that will best ensure that: <ul style="list-style-type: none"> - the stability of the vehicle and crane will be maintained - load movements will be as slow, smooth and level as possible - any load restraints will remain in place and be effective - the load will be delivered to a level and stable surface 	Relevant lifting chart (to confirm the lifting attachment and slinging method is suitable)



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Set up the site for the lift	Impact on other objects / workers Electrocutation Instability Unsafe equipment and/or set up	Set up an appropriate exclusion zone (use warning tape, witches hats and/or a spotter) Ensure you will maintain a separation distance of 3 metres from power line for voltages up to 132KV and 8 metres for voltages greater than 132KV unless you have a suitable permit. Deploy stabilisers and install outrigger foot plates where required Check the vehicle and crane are level Complete a visual inspection of the vehicle and set up (do not continue if unsafe. "Tag Out" faulty equipment if needed)	
Prepare the load for the lift	Unsafe load Proceeding with a lift that is not safe	Ensure the load is safely slung. Check that the load is securely restrained. Test the load for stability and load restraint (slowly lift the load slightly above its initial position)	
Move the load	Uncontrolled movements	Lift, move and lower the load slowly and smoothly. Do not travel the load over a person Ensure the load is placed securely on a level and stable surface.	
Complete the work	Vehicle loads not secured before leaving Objects / Materials left on site.	Remove lifting attachments and store securely. Return the crane to the confines of the vehicle. Turn off the equipment and secure the crane to prevent movement. Remove the exclusion zone (and remove any wheel chocks, if used)	



References	
<p>Standards, Codes of Practice, Guidance:</p> <p>Commonwealth Work Health and Safety Regulation (Regulation 81, 82, 83, 85, and Schedule 3)</p> <p>National Transport Commission – Load Restraint Guide</p> <p>Australian Standard – AS 2550 Cranes, Hoists and Winches, AS 4991 Lifting Devices</p> <p>Operating Manual and/or Safe Use Instructions (for the vehicle loading crane)</p> <p>Relevant vehicle loading crane:</p> <ul style="list-style-type: none"> - chain sling working load limit chart - vehicle loading crane lifting chart 	<p>Plant / Equipment / Tools:</p> <p>Vehicle Loading Crane</p> <p>Additional PPE requirements to be determined, such as:</p> <ul style="list-style-type: none"> - gloves - hardhats <p>Use as needed:</p> <ul style="list-style-type: none"> - lifting attachments - vehicle load restraints - warning tags – Danger, and Do not Operate - warning tape and/or witches hats
<p>Training Requirements:</p> <p>Check whether high-risk licenses are required and if so that workers have these.</p> <p>The Work Health and Safety Regulation, Schedule 3, requires high-risk work licences for work including operating a vehicle loading crane with a capacity of ten metre tonnes or greater.</p> <p>Depending on the complexity of a load to be moved, high risk work licenses in dogging or rigging may also be considered.</p> <p>A specific competency unit is available for operating a vehicle-mounted loading crane.</p>	<p>Inspection / Testing requirements:</p> <p>Before use, check:</p> <ul style="list-style-type: none"> - Crane is operational and fit for purpose, including any remote controls - Lifting attachments are fit for purpose with a current inspection tag - PPE has been correctly selected and adjusted