

Workshop Mechanic	Location: Darwin	PUMA/Direct Haul
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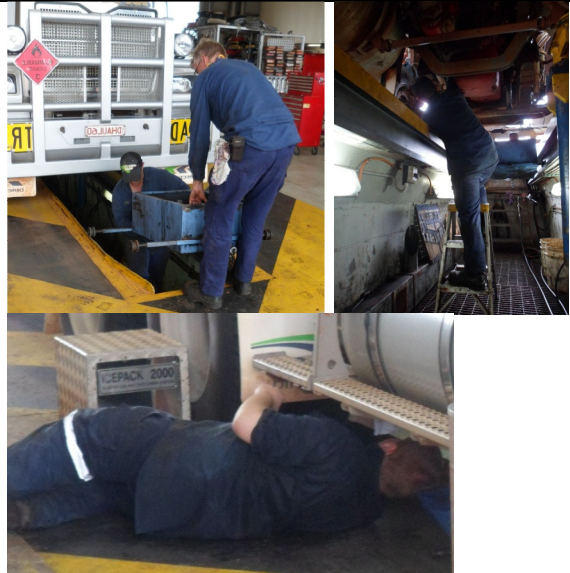

Description: Town based mechanic working in open air covered workshop performing regular maintenance servicing to all fuel trucks. No confined space entry required. Ventilated pits located within Berrimah workshop. Mechanics access cabs via vertical steps and drive vehicles in/out of workshop. Moving trolleys are available for use but require component placed at floor level and pick up from floor level. Tyre trolleys are used for tyre changes. McKinnen Road workshop has no pits and works solely on trailers.




PPE: Collared long sleeved shirt, long pants, steel capped boots, hearing protection, eye protection, gloves

Roster: Berrimah: 9.5 hour days. 10 days on/4 days off. Less staff on weekends.

McKinnen Road: M-F +/- Sat 9.5 hour days. Roster dependent on work. Rarely drive trucks but must hook/unhook trailers. Rolling flat trolleys available for workers to lay on to access beneath vehicles.

Environment / Health: Exposure to heat and environmental conditions, exposure to chemicals.

Task:	Photo:
<p>Pit Work (Berrimah only): Access to pit via 5 steps without rail with metal grate floor surface. Tools/lubricant hoses located within walls of pit. Fluid trays 2 person manually placed in pit and must be ducked (stooping while walking) under to move around pit. Trays once filled manually removed (2 person). Small component/small area: Awkward often sustained positions with pit work requiring neck extension, sustained overhead reach, and back extension. Access under truck required for other items. Small item tasks <5 kg include oil and fuel filter changes, AC (ice pack) service. Large component/small area: Large components (changing a CV joint) may require component be slinged overhead to support/manoeuvre component to extract and manually remove from pit or outside pit components may be manual manoeuvred to position (chair-93 kg 2 person awkward lift floor to shoulder height). Essential task.</p>	
<p>Large component change out/large area: Use of forklift to support weight of large objects. Often forceful push/pull/hammering to remove bolts/loosen components required at various heights. Ring feeder (37 kg) manually held in place at waist height. Other items include tail shaft 55 kg, tyres 73 kg (tyre jack for lifting/lowing but manual positioning still required) Essential task.</p>	

Task:	Photo:
<p>Small Components/large area: Mechanic may sort out at bench height bolts, change out components on suzi coils or other equipment servicing. Sustained neck flexion, hand manipulation with option to sit or stand using small components/tools often < 5 kg. Mechanic may have to walk short distances to gather tools for job. Essential task.</p>	
<p>Engine access: (Berrimah only) To access under the bonnet, the mechanic uses a pinch bar to lever bolts securing bull bar and remove a central pin, manually supporting and lowering a pivoting bull bar from vertical to horizontal position. Straps are pulled on the side of the cab to release bonnet and bonnet is pushed from chest height to overhead (awkward load). To lower the bonnet, the weight is supported to lower back into position. The bull bar is manually lifted and held in position while reaching to pick up and replace bolts. Essential task.</p> <p>Freightliner: 22 kg bull bar/16 kg bonnet Mack Trident: 30 kg bull bar/36 kg bonnet Kenworth 909: Over 45 kg bull bar/40 kg bonnet</p>	
<p>Barrel Inspection: Mechanic must also visually inspect the barrel from the top accessed by a ladder while maintaining 3 points of contact. Some trucks having a barrel rack that needs to be climbed over to access the ladder. Special torches are required and up 4- 6 chambers/barrel are checked. Essential task.</p>	

Task:	Photo:
<p>Pit Cleaning (Berrimah): Bi annually/quarterly metal grates are removed manually from the pit (2 person to lift with one person outside the pit to pull/stack grates). Replacing grates: one person outside the pit to lower using a hook on the grate with second person in pit resting grate along the pit side. 2 person in pit to manoeuvre grates into position at ground level. (Large grates 38 kg) Pit floor is mopped and fluids are pumped into container. Grates are pressure sprayed to clean. Pallet is fork lifted to wash down area but grates are manually moved to clean. Non essential task.</p>	
<p>Hooking/Unhooking Trailers: ~15 min to hook or unhook each trailer. Forward reach to twist off taps. Mechanic must ascend 3 vertical steps while maintaining 3 points of contact to access trailer centre and detach hoses at ground height. Standing beside trailer, mechanic cranks at waist height to lower feet to ground (forceful push/pull). Mechanic forcefully pulls handle forward reaching under barrel. Mechanic must ascend 3 vertical steps with bar to access cab of truck to drive forward while checking mirrors. Reverse performed to attach trailer with addition of visually checking handle/pin has clipped into place with torch and sustained squat under barrel. Non essential task.</p>	

For Light Duties- see job/tasks associated with Mechanic- Yardman role

Physical Demands

Job: Workshop Mechanic

Item	Other	Occasional	Frequent	Constant
Floor-Bench	Forceful push/pull/awkward loads	46.5 kg		
Bench - Bench	Forceful push/pull/awkward loads	38 kg		
Bench -Shoulder	Forceful push/pull/awkward loads	46.5 kg		
Bench - Above Shoulder	Forceful push/pull/awkward loads	40 kg		
Bilateral Carry	Awkward load	46.5 kg		
Single Arm Carry		25 kg		
Sitting-supported		x		
Walking			x	
Ladder			x	
Crawling		x		
Kneeling				x
Squatting				x
Stairs	No stairs at McKinnon		x	
Neck:				
Rotation				x
Forward Bend				x
Bend Backward				x
Back:				
Forward Bend			x	
Side Bend			x	
Rotation			x	
Bend Backward	Freq. at McKinnon			x
Arms:				
Forward Reach				x
Side Reach			x	
Overhead Reach				x
Reach Behind			x	
Hand Manipulation				x
Wrist/Hands:				
Bend Down			x	
Bend Up			x	
Bend toward thumb/little finger			x	
Grip				x
Vibration(hammer/rattle gun)			x	
Frequency Classifications				
	% Task Time	Reps Per Day	Reps Per Hour	Reps Per Minute
N - Never	-	-	-	-
O - Occasionally	1-33	1-100	1-12	1 every 5-15
F - Frequently	34-66	101-500	12-63	1 every 1-5
C - Continuous	67-100	500+	>63	1 or more