



Job Demand Analysis						
Placement/Job Title:	Plant Operators – Works Services					
Division/Branch:	Infrastructure and Operations/Infrastructure Delivery					
Date of Assessment:	28 November 2012					
Assessment Completed By:	Human Resources Advisor 2 Works Supervisor					
Standard Hours:	7am to 4pm (8½ hours per day), 9 day fortnight					
Variable Hours:	X Overtime On Call X Call Outs					
Breaks / Rest Periods:	15 minute morning tea 30 minute lunch					

Environmental/Psychosocial Factors

The Plant Operators operate specific plant items including the backhoe, roller, loader, excavator, skidsteer and tractor. They work in gangs. Most of their time is spent inside operating the plant but the plant operator may be required to perform labouring tasks with the crew if plant operating duties are not required.

Tasks such as road patching need to be completed within the allocated time frame to allow minimum disruption to traffic flow.

Concentration and care needs to be taken when operating plant in relation to the surrounding areas to avoid tipping the machine.

Job Descriptions

Plant operators are responsible for providing skilful operation of specialised equipment in the provision of civil engineering services to the LGA of Dubbo Regional Council. Please see relevant position description for further information.

Physical Demands	Rarely 1-5%	Occasional 6-33%	Frequent 34-66%	Continuous 67-100%	Comments
Standing		X			Required when performing labouring tasks.
Walking		Х			Required when performing labouring tasks and may include rough and/or inclined ground surfaces.
Sitting				Х	Prolonged sitting is required to operate foot and hand controls - includes levers, joy sticks, switches, steering wheel and pedals. The seat is adjustable

Physical Demands	Rarely 1-5%	Occasional 6-33%	Frequent 34-66%	Continuous 67-100%	Comments
					in height and the backrest can be altered for added support. Air suspension is available in
					the seat. However, some jarring and vibration may be experienced, depending on the
					road surface.
Climbing ladders, stairs or scaffolding			X		Access to the cabin is gained by three steps (commencing at knee level) and a handle located at head level. Climbing is also required when greasing the machine.
Bending / Stooping		X			May be required for labouring tasks and when replacing cutting edges on the machine. The worker also has to bend forward to rotate the seat and to separate the foot pedals for extra control of the machine at times.
Squatting / Crouching		X			May be required for labouring tasks and when replacing parts on the machine.
Kneeling		Х			May be required for labouring tasks and when replacing parts on the machine.
Reaching overhead		X			Overhead reach is required when using the handle to assist with transfers into the cabin. The two way radio is also located at shoulder height within the cabin.
Reaching at waist level or below				X	Repetitive bilateral shoulder flexion and upper limb reach is required to hold and manoeuvre the steering wheel. Repetitive bilateral upper limb flexion, abduction and external rotation are also required to access and operate the controls.
Trunk Rotation				X	Repetitive trunk and neck rotation is required to assist with visibility and two exterior mirrors are also available for use by the worker.
Repetitive Forearm, hand and finger movement				Х	Bilateral fine motor actions are required to conduct the precheck of the Plant and to operate the numerous controls within the cabin (located to each side of the worker). The worker uses a cylindrical grip
					on the joy stick, along with

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					repetitive finger and thumb
					movements.
Manual				X	Bilateral upper and lower limb
dexterity and					actions are required to operate
handling					the machine. Lower limb force
					is also required through the
					pedals at times to stop the
					machine veering to one side.

Manual Handling					
	Weight:	Frequency:	Comments:		
Lifting	15-20kg	Occasional	Lifting of cement bags and tools/equipment may be required on an intermittent basis when performing labouring tasks.		
Carrying	15-20kg	Occasional	Carrying of cement bags and tools/equipment over short distances may be required on an intermittent basis when performing labouring tasks.		
Pushing/Pulling	30-40kg	Rare	Push/pull of the cutting blades may be required to position them for placement of nuts.		

Tools Used		
Tool:	Weight:	Comments:
Blades	30-40kg	Blades need to be manoeuvred slightly to position and secure to
		the machine.
Cement	15kg	May be lifted and carried over short distances.
Chains	15kg	May be lifted and carried over short distances. However, a
		labourer usually performs this task.
Shovel	2kg	May be used to move a variety of substances such as dirt and
		gravel.
Broom	2kg	Used to clear the road and gutters as required.
Stop/go sign	2-3kg	Cylindrical grip and static holding of the sign is required.
Hand tools	< 1kg	An assortment of hand tools may be used.
Power Tools	2-3kg	Used during labouring tasks
Chainsaw	15kg	Used during labouring tasks
GPS Device	< 1kg	Handheld GPS device

Balance		
	Exposure to:	Comments:
Level ground	Yes	When walking on prepared road
		surfaces.
Uneven ground	Yes	When walking on unprepared road
		surfaces and when performing
		labouring tasks.
Unprotected heights or high levels	Yes	Includes access to/from the Plant
		cabin.

Environmental Conditions		
	Exposure to:	Comments:
Inside work	Yes	The worker performs the majority of
		tasks whilst sitting in the Plant cabin.
Outside work	Yes	The worker may be required to perform
		labouring tasks with the crew when not
		operating Plant.
Night Work	Yes	Occasionally
Extreme heat	Yes	The worker may be exposed to the
		environment when performing labouring
		tasks.
Extreme cold	Yes	The worker may be exposed to the
		environment when performing labouring
		tasks.
Humid or wet	Yes	The worker may be exposed to the
		environment when performing labouring
		tasks.
Noise	Yes	Noise is reported to be minimal within
		the Plant cabin.
Vibration	Yes	Some vibration is experienced when
		travelling over rough surfaces.
Mechanical hazards	Yes	The worker has to be aware of
		surrounding traffic and plant machinery.
Electrical hazards	Yes	The worker has to be aware of overhead
		lines, underground power and water
		lines and other electrical hazards.
Risk of burns	Yes	When checking engine, hot exhaust,
		engine
Radiant energy	Yes	
Poor ventilation	Yes	Trench work
Moving objects	Yes	Includes other plant machinery and
		general traffic flow. The worker must
		also be aware of the position of the
		bucket and boom at all times.
Sharp tools	Yes	Chainsaw
Cluttered or slippery floors	Yes	The steps into the cabin may be slippery
		at times, especially if working in a
		muddy area.
Elevated surfaces	Yes	Access to/from the Plant cabin and
		when performing pre-start checks of the
		machine.
Lighting	Yes	When required, sufficiently supplied
Exposure to fumes/odours/	Yes	The worker may be exposed to traffic
dusts/mists/gases		fumes when driving and labouring.
Exposure to biological hazards	Yes	Sharps

Sensory/Communication		
	Required:	Comments:
Vision	Yes	High levels of visual perception are required when operating the machine so that the operator is aware of other traffic and hazards. This may involve twisting the neck on a repetitive basis to gain visual information.

Hearing	Yes	General liaison with other workers.
Speech	Yes	General liaison with other workers.
Reading	Yes	Completion of paperwork as required.
Writing	Yes	Completion of paperwork as required.
Numerical ability	Yes	The worker needs to be aware of depth
		when digging holes.

This Job Demand Analysis has been assessed and approved by the relevant Supervisor and corresponding Manager within Dubbo Regional Council. This Job Demand Analysis will be implemented on 8 April 2013.