

Job Demand Analysis	
Placement/Job Title:	Traffic Engineer
Division/Branch:	Infrastructure and Operations/Infrastructure Strategy
Date of Assessment:	29 November 2012
Assessment Completed By:	Human Resources Advisor 4 Traffic Engineer
Standard Hours:	9.00am to 5.00pm
Variable Hours:	√ Overtime √ On Call √ Call Outs
Breaks / Rest Periods:	15 minute morning tea 1 hour lunch
Environmental/Psychosocial Factors	
<p>The Traffic Engineer required to:</p> <ul style="list-style-type: none"> • Schedule and monitor projects in order to ensure work is completed efficiently, in the expected time frames and according to budget. • Approximately 70% of work tasks are performed within an office environment. • Approximately 30% of tasks are performed on site. This may include inspections of roads, road safety, bridges and culverts. Also required for conducting traffic surveys. • Is exposed to all weather conditions and may work in uneven/sloped terrain and slippery/muddy ground surfaces (gum boots are available for use). The work area may be surrounded by water and hazards may be present. Snakes, spiders and other vermin may also be present in the vicinity of the work area. • May be required to perform overtime and may be called out for emergency situations. However, this is only required on an intermittent basis. • May also have to deal with complaints from members of the public and deal with these in an effective and time efficient manner. • To provide advice as required to courts. 	
Job Descriptions	
<p>The Traffic Engineer is responsible for delegated aspects of the Traffic function as directed by the Senior Traffic Engineer, providing advice and services to the organisation on:</p> <ul style="list-style-type: none"> • Traffic and Road Safety Engineering matters. • Off street car parks are functional and appropriately maintained. • Transport and Traffic Management. <p>See Position Description for further information.</p>	

Physical Demands	Rarely 1-5%	Occasional 6-33%	Frequent 34-66%	Continuous 67-100%	Comments
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Physical Demands	Rarely 1-5%	Occasional 6-33%	Frequent 34-66%	Continuous 67-100%	Comments
Standing		X			Required when performing office based tasks and when attending site inspections.
Walking		X			Required within the office environment and when performing site inspections. A variety of terrain is traversed on site, including even, uneven, sloped and inclined surfaces.
Sitting			X		An adjustable ergonomic chair is available for use within the office environment. Sitting in the vehicle is also required when driving to/from site.
Climbing	X				May be required to access areas on site, to allow survey and/or inspection tasks to occur. This may include climbing hills and banks on site.
Bending / Stooping		X			Required when undertaking inspection tasks and taking measurements. Also required when setting up line marking and for traffic facilities.
Squatting / Crouching		X			Required when undertaking inspection tasks and taking measurements. Also required when setting up line marking and for traffic facilities.
Kneeling	X				Rarely required.
Reaching overhead	X				May be required when setting up the radar speed trailer.
Reaching at waist level or below.			X		Required when driving vehicles, moving equipment to/from site and when performing survey and/or inspection tasks. Also required when performing computer based data entry and drafting tasks.
Crawling	X				Rarely required.
Trunk Rotation	X				Rarely required, but may be needed when lifting/carrying equipment, using equipment and accessing areas on site, to allow inspection tasks to occur.
Repetitive Forearm, hand and finger				X	Bilateral fine motor actions are required for computer based data entry and drafting tasks, with manual writing and when

Physical Demands	Rarely 1-5%	Occasional 6-33%	Frequent 34-66%	Continuous 67-100%	Comments
movement					driving. Also required when performing survey and/or inspections on site.
Manual dexterity and handling		X			Carrying of equipment may be required to/from site.

Manual Handling			
	Weight:	Frequency:	Comments:
Lifting	5-15 kg	Occasionally	Lifting of equipment is required to/from the vehicle and on site. Lifting ranges from ground to waist to shoulder level.
Carrying	5-15 kg	Occasionally	Carrying of equipment is required to/from the vehicle and on site.
Pushing/Pulling	Varied	Rarely	Required when pushing/pulling speed radar trailer into position.

Tools Used		
Tool:	Weight:	Comments:
Hand tools	<1kg	A variety of hand tools may be used such as claw hammers, spirit levels and tape measures as required on site.
Measuring Wheel	0.5kg	Requires walking along to measure distances of jobs.
Spray cans	0.5kg	Required for marking roads for works to be undertaken.
Design plans	2-3kg	Carried out to site.
Traffic Cones	1-2kg	Carries around 5 cones at a time.

Balance		
	Exposure to:	Comments:
Level ground	Yes	Within the office area and when performing site visits.
Uneven ground	Yes	When performing site inspections and survey tasks.
Unprotected heights or high levels	No	Not applicable.

Environmental Conditions		
	Exposure to:	Comments:
Inside work	Yes	When performing office based tasks.
Outside work	Yes	When performing site visits.
Night Work	Yes	May be required for special projects and when called out for emergencies.
Extreme heat	Yes	Exposed to all weather conditions.
Extreme cold	Yes	
Humid or wet	Yes	
Noise	Yes	Workers may be exposed to noise of equipment when performing site visits.

Environmental Conditions		
	Exposure to:	Comments:
		They may also be exposed to general traffic and plant noise when on site.
Vibration	Yes	Workers may be exposed to vibration if rollers and/or plant are operating nearby.
Mechanical hazards	Yes	The worker may be exposed to traffic, plant machinery and equipment/machinery when performing site visits.
Electrical hazards	No	Not applicable.
Risk of burns	No	Not applicable.
Radiant energy	Yes	When performing site inspections/visits in outside areas. Sun protection is worn.
Poor ventilation	No	Not applicable.
Moving objects	Yes	The worker may be exposed to traffic, plant machinery when performing site visits.
Sharp tools	No	Not applicable.
Cluttered or slippery floors	Yes	The worker may be exposed to muddy and/or slippery work environments when performing site inspections.
Elevated surfaces	No	Not applicable.
Lighting	No	Not applicable.
Exposure to fumes/odours/ dusts/mists/ gases	Yes	Exposure to dust/fumes may occur at site visits.
Exposure to biological hazards	No	Not required.

Sensory/Communication		
	Required:	Comments:
Vision	Yes	Vision is required when performing computer based and administrative duties. Vision is also required when driving to/from site and when performing site inspections.
Hearing	Yes	General liaison with other workers and members of the public is required and the worker also needs to be aware of surrounding traffic, plant and equipment when on site.
Speech	Yes	General liaison with other workers and members of the public is required.
Reading	Yes	Completion of paperwork as required.
Writing	Yes	Completion of paperwork as required.
Numerical ability	Yes	When calculating distances and for reporting purposes.

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.