

# JOB ROLE STATEMENT

## TRAFFIC SIGNAL TIMING REVIEW OFFICER LEVEL 5

**DIRECTORATE** NETWORK OPERATIONS  
**BRANCH** NETWORK PERFORMANCE **POSITION NO** P0063246 / P0063247

### KEY RESPONSIBILITIES

Provide specialist support in optimisation of traffic performance in accordance with Main Roads' Network Operations Directorate business plan objectives and targets. Contribute towards the delivery of network performance targets related to traffic signal timings through review of SCATS data, traffic modelling and implementation of identified strategies and timings to achieve better performance.

### KEY DELIVERIES

#### Route Optimisation and Traffic Signal Timing Improvement Project:

In accordance Branch and Directorate business plan objectives and targets:

- Provide specialist support in identification of traffic signal timings that result in road network deficiencies and determine appropriate signal timing interventions to improve safety, efficiency and reliability for all road users.
- Review traffic signal timings and operations along Metropolitan State Road Network Routes to improve travel times and reliability.
- Review the effective collection of route traffic signal background data and information from sources such as SCATS, Video Surveys, Land use, Public Transport and travel times.
- Asses the allocated traffic signals based on background data and internal/external stakeholder liaison.
- Carry out reviews of SCATS operation to ensure optimisation of traffic signal timings along specific routes.
- Review traffic signal optimisation work undertaken by other resources within Main Roads and/or external consultants.
- Develop improvement recommendations based on outcomes of review and predetermined performance baselines.
- Test recommendations using software tools such as LINSIG, TRANSYT or micro-simulation, for optimising traffic signals timings to reduce delays and/or to increase traffic capacity at intersections.
- Implement improved traffic signal timing recommendations.
- Carry out before and after analysis, using appropriate datasets, to identify impacts of strategies implemented and fine-tune changes where appropriate.
- Perform timely and accurate 'lessons learned' analysis and follow up performance reporting.
- Keep abreast with the traffic signalling industry 'best practice' and latest trends and possible solutions to improve network performance.

#### Project Management

- Provide support for the development of project plans for the traffic signal optimisation review.
- Provide specialist support with tasks and activities that contribute to the overall traffic signals optimisation review.
- Provide specialist support with provision of traffic signal data to external service consultants.
- Provide specialised input for traffic signal optimisation program in order to enhance the performance and sustainability of the road network.
- Collaborate with staff and associates to ensure performance targets are met and continuous improvements to the network are achieved.

#### Stakeholder Relationships

- Build and maintain collaborative working relationship with key Branch stakeholders to achieve network operations 'best practice' and performance initiatives.
- Liaise with key external stakeholders for sharing knowledge and ideas to achieve traffic signal optimisation outcomes.
- Interpret traffic signal data and outcomes together with SCATS and SVD teams and Route Managers.
- Contribute to stakeholder forums focused on network performance reviews and improvements.
- Provide specialist support to the management team at external committees and working parties, public meetings and workshops.

### OCCUPATIONAL SAFETY, HEALTH AND WELLBEING (OSH&W)

Responsible for active participation and performance to OSH&W standards as detailed by the Main Roads' Safety, Health and Wellbeing (SH&W) Management System - refer to "SH&W Responsibility and Accountability Procedure" on 'iRoads' intranet.

### LOCATION

Main Roads is a regionalised organisation with key delivery centres operating from the Kimberley to the Great Southern regions, including the metropolitan area. The incumbent of this position may be required to undertake a role in a region for a period of time.

### DYNAMIC RESOURCING

The incumbent of the position may be required to perform any other role within the incumbent's level of skill, competence and responsibility as directed by the Managing Director of Main Roads to meet the organisation's objectives and the incumbent's development.

### REPORTING RELATIONSHIPS

This position reports to:

(A) TITLE AND LEVEL	POSITION NO
SCATS AND SVD AREA MANAGER	LEVEL 6 P0063243

# TRAFFIC SIGNAL TIMING REVIEW OFFICER LEVEL 5

**POSITIONS UNDER DIRECT SUPERVISION**

**ALL POSITIONS UNDER CONTROL**

List the position numbers, titles and levels of positions directly supervised

State number of positions only

TITLE and LEVEL	POSITION No	CATEGORY	NUMBER
		Salaried, Wages	

**SELECTION CRITERIA**

**ESSENTIAL:**


- Considerable skill, knowledge and experience in:
  - traffic engineering, traffic analysis and traffic signal operation
  - collecting data from SCATS and reviewing basic parameters that impact operation of traffic signals
  - modelling traffic signals to optimise traffic performance at intersections by using software such as LINSIG
  - data analysis to establish impacts of changes to traffic signals
  - preparing and delivering technical presentations and information to groups and individuals
  - building and enhancing stakeholder relationships
- Knowledge of:
  - traffic modelling including microsimulation and intersection assessment tools
  - policies and practices on Occupational Safety and Health, and on EEO, diversity and equity
- Possession of a current Western Australian 'C' Class (car) motor vehicle drivers licence or an approved equivalent.

**DESIRABLE:**

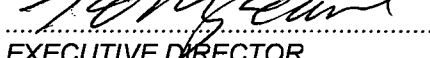
- A Diploma in Engineering.

**CERTIFICATION**


1. The details contained in this Job Role Statement have been reviewed and conform to Main Roads guidelines.

SIGNATURE  DATE 18-1-2017  
 BRANCH/SECTION HEAD

2. The details contained in this document are an accurate statement of the duties, responsibilities and other requirements of the position.

SIGNATURE  DATE 18-1-17  
 EXECUTIVE DIRECTOR

3. The details contained in this document have been reviewed and conform to Main Roads guidelines.

SIGNATURE  DATE 19/1/17  
 MANAGER HR BUSINESS