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### Overview

This standard is about managing traffic by controlling traffic signals on urban roads. It includes monitoring traffic flow, identifying and responding to potential congestion, and to incidents requiring interventions involving the use of traffic signals.

**There are two elements:**

- 1 Maintain traffic on urban roads through the use of signals
- 2 Manage incidents on urban roads using traffic signals

### Performance criteria

#### Maintain traffic on urban roads through the use of signals

*You must be able to:*

- P1 monitor the urban road network using CCTV in line with your organisation's procedures
- P2 identify correctly where the build up of traffic requires intervention, using signals to address the potential for undue congestion
- P3 identify the correct actions towards managing the build up of traffic, and control the relevant traffic signals accordingly
- P4 monitor the traffic flow and assess further available information, managing the signals accordingly
- P5 operate signal timings to ensure optimum traffic flow for all users of the urban road network
- P6 restore traffic signals to their automatic settings correctly and promptly, in line with your organisation's procedures
- P7 check traffic signal operations in line with your organisation's procedures
- P8 identify where signals are not operating correctly, and report these promptly to the relevant person, in line with your organisation's procedures
- P9 maintain up to date, accurate and complete records of signal interventions and any faults on the signal network, in line with your organisation's procedures

#### Manage incidents on urban roads using traffic signals

*You must be able to:*

- P10 identify correctly and respond promptly to incidents on urban roads which require traffic signal intervention
- P11 establish the nature of the incident and determine the correct signal intervention required, taking into account the location and nature of the incident, and the implications for traffic on the surrounding road network
- P12 identify correctly the signal timings required in addressing the incident, in line with agreed signal plans and your organisation's procedures
- P13 monitor the progress of the incident and assess further relevant information promptly, adjusting the traffic signal timings as necessary
- P14 communicate with all relevant agencies towards ensuring that management of the incident is coordinated
- P15 provide relevant and accurate information to appropriate stakeholders regarding traffic flow and any reduction in the road network capacity
- P16 clear traffic signal interventions correctly following the conclusion of the incident
- P17 maintain up to date, accurate and complete records of signal interventions

### Knowledge and understanding

*You need to know and understand:*

#### Legal and organisational requirements

- K1 current legislation, policies, procedures and performance indicators relevant to managing traffic flow on urban roads using traffic signals, and their implications for your area of operations
- K2 what constitutes both a confirmed and an unconfirmed report regarding an incident on the road network and how to determine the appropriate response
- K3 how to use the available traffic signalling technology, including when and how to return signals to the correct cycle and plan according to the time of day
- K4 how to monitor the urban road network on CCTV in accordance with your organisation's requirements
- K5 your levels of authority, skills and ability, and the actions necessary should these be exceeded

#### Stakeholders

*You need to know and understand:*

- K6 your partner stakeholder organisations and individuals involved with managing traffic flow on the urban road network, and how to liaise with them
- K7 the information required by your partner stakeholder organisations and that which you require from them
- K8 the likely impact upon the wider community who are likely to be affected by interventions to normal traffic signalling

#### Managing incidents on urban roads

*You need to know and understand:*

- K9 the importance of gathering and reviewing information in relation to incidents requiring the use of traffic signalling
- K10 the reasons for having traffic signalling management in place and the circumstances in which it should be used
- K11 how to monitor the progress of incidents and respond appropriately using traffic signalling technology
- K12 how to create and maintain records regarding signal interventions
- K13 how to relate geographic addresses on electronic systems to incidents on the road network, where appropriate

#### Use of signalling plans and systems

*You need to know and understand:*

- K14 the effects and implications of setting signal plans in managing traffic flow on urban roads
- K15 the importance of checking that traffic signals are functioning correctly

- and of reporting any faults, including your organisation's procedures for progressing the repairs of faults
- K16 the factors to be taken into account when determining the extent of traffic signalling interventions
- K17 the geography of the road network for which you are responsible
- K18 the importance of assessing the impact of proposed changes to the timing of signals, including your organisation's criteria to be met before changes are implemented, where relevant
- K19 the importance of returning signals to the set criteria, according to the time of day and traffic flow, following an intervention affecting the timing of signals

# SFJJA204

## Manage urban traffic by controlling traffic signals

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<b>Developed by</b>	Skills for Justice
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<b>Originating organisation</b>	Skills for Justice
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<b>Relevant occupations</b>	Public Services; Public Service and Other Associate Professionals
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<b>Suite</b>	Traffic Management
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<b>Key words</b>	traffic management, signals, urban
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