SFJJA301
Manage inter-urban traffic using traffic management technology

Overview

This standard is about using traffic management technology to manage traffic on inter-urban roads, including motorways and all purpose trunk roads. It includes addressing traffic flow in response to incidents, congestion and the effect of roadworks. It requires the use of the technology to monitor the roads, to set the signs and signals and also the ongoing reviewing of the situation so that the settings can be altered accordingly.

There are three elements

1 Manage incidents on inter-urban roads using traffic management technology
2 Manage congestion on inter-urban roads using traffic management technology
3 Manage traffic flow through roadworks on inter-urban roads using traffic management technology

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Performance criteria

You must be able to:

Manage incidents on inter-urban roads using traffic management technology

P1 identify correctly and respond promptly to incidents which require traffic management
P2 establish the nature of the incident and determine correctly the response required, taking into account the location of the incident and whether it is a high or low risk location, the traffic count and weather conditions
P3 relate accurately the relevant geographic addresses identified on the electronic systems to actual distances on the inter-urban road network
P4 identify correctly the relevant signs and signals for managing the incident
P5 demonstrate that the proposed settings are appropriate and safe for road users
P6 set signs and signals in a timely manner, and in line with organisational procedures
P7 monitor the incident and assess further relevant, available information, altering the traffic management settings accordingly, in line with your organisation's procedures
P8 provide relevant and accurate information promptly to the relevant person(s) regarding incidents, including any likely reduction in network capacity, in line with your organisation's procedures
P9 clear signs and signals correctly and promptly following the resolution of incidents
P10 maintain up to date, accurate and complete incident records

Manage congestion on inter-urban roads using traffic management technology

You must be able to:

P11 monitor the inter-urban road network using CCTV in line with your organisation's procedures
P12 monitor automatic traffic management detection and signalling systems, and respond promptly to indications of congestion on inter-urban roads
P13 identify the cause of congestion promptly and respond correctly, in line with your organisation's procedures
P14 review the automatic settings, amending these correctly in response to changes in the situation and associated congestion levels
P15 identify accurately the extent of the congestion, and its impact across the inter- urban road network, and set signs and signals manually to minimise the effect of the congestion upon road users
P16 monitor the congestion and assess further available information, altering the traffic management settings accordingly
P17 provide accurate information to the relevant person(s) regarding any likely reduction in network capacity, and also when capacity will be restored, in line with your organisation's procedures

P18 clear signs and signals correctly and promptly following restoration of the inter- urban road network capacity
P19 identify correctly any faults in the traffic management detection and signalling systems and report these promptly to the relevant person, in line with your organisation's procedures
P20 maintain up to date, accurate and complete records

Manage traffic flow through roadworks on inter-urban roads using traffic management technology

You must be able to:

P21 identify roadworks scheduled for the inter-urban road network, in line with your organisation's procedures
P22 communicate with the roadworks contractor and identify correctly all relevant information necessary for managing traffic flow through the effected location
P23 identify and set correctly the relevant signs and signals for the roadworks
P24 set correctly the highest displayable speed limit on relevant signs, in accordance with any mandatory speed limits, where appropriate
P25 enable and disable correctly high occupancy on electronic detection and automatic signalling system sites during roadworks, where appropriate
P26 clear signs and signals, including highest displayable speed limits on signals, correctly and in a timely manner
P27 maintain up to date, accurate and complete records

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Knowledge and understanding

Legal and organisational requirements

You need to know and understand:

K1 current legislation, policies, procedures and performance indicators relevant to identifying and managing operational hazards and risks using traffic management technology, and their implications for your area of operations
K2 what constitutes both a confirmed and an unconfirmed report and how to determine the appropriate response
K3 current policy and procedures for the use of technology in roadworks relevant to your area of operations
K4 how to use the available traffic management technology, including when and how to set and clear signs and signals in accordance with your organisation's
K5 how to monitor the network on CCTV in accordance with your organisation's
K6 your levels of authority, skills and ability, and the actions necessary should these be exceeded

Stakeholders

You need to know and understand:

K7 your partner stakeholder organisations and individuals involved with operations, and how to liaise with them
K8 the information required by your partner stakeholder organisations
K9 the needs of the wider community who are likely to be affected by operations requiring traffic management

Managing operational hazards

You need to know and understand:

K10 the importance of gathering and reviewing information in relation to incidents involving the use of traffic management
K11 the reasons for having traffic management contingency measures in place and the circumstances in which they should be used
K12 how to monitor changes in the situation and respond appropriately using traffic management technology
K13 potential hazards and risks to all involved in traffic management operations
K14 how to create and maintain an incident record
K15 how to relate geographic addresses on electronic systems to actual distances on the network, where appropriate

Use of technology

You need to know and

K16 the importance of assessing the impact of proposed settings, including

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understand:		the criteria to be checked before the electronic systems proposal is implemented, and how to do this for single, block, sub-proposals and modifications of proposals
	K17	the factors to be taken into account when determining the extent of traffic management settings
	K18	the effects and implications of setting control and information systems used by your organisation to manage traffic flow on the road network
	K19	the geography of the road network for which you are responsible
	K20	the importance of checking that signalling is functioning and of identifying and reporting any faults in the traffic management detection and signalling systems and in the fault reporting structure

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