SFJJA202 Control tunnel safety systems



Overview

This standard is about controlling tunnel safety systems. It includes monitoring the systems, such as that addressing air flow and quality, power distribution and drainage. It also includes identifying and taking the necessary actions to ensure that these address changing conditions within a tunnel.

Maintaining the health and safety of all of those using the tunnel is of paramount importance.

There is one element:

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Performance criteria

You must be able to:

- P1 monitor traffic in and around the tunnel using the appropriate systems correctly, in line with your organisation's procedures
 - P2 operate the safety systems correctly to maintain the health, safety and welfare of road-users within the tunnel
 - P3 monitor safety systems and equipment correctly, including those maintaining the flow and quality of air, power and drainage, and address where relevant any deviations from accepted readings in line with your organisation's procedures
 - P4 report problems and faults in the use of safety systems and equipment, where these occur, promptly and accurately, in line with your organisation's procedures
 - P5 identify correctly activities and incidents within the tunnel which require a response, identifying and implementing the relevant corresponding actions relating to the tunnel safety systems promptly
 - P6 interpret correctly and report incidents accurately, promptly and calmly to the relevant person(s)

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Knowledge and understanding	Lega	al and organisational requirements
You need to know and understand:	K1	current, relevant legislation, policies, schemes and procedures, including your organisation's standards and performance indicators, in relation to controlling safety systems within tunnels and their implications for your area of operations
	K2	health and safety requirements relating to traffic management within tunnels
	K3	how to use and monitor the tunnel and the performance of the tunnel safety systems in accordance with your organisation's requirements
	K4	your level of authority and the actions necessary should these be exceeded, including the tunnel management hierarchy within your area of operations
	Add	ressing risk scenarios associated with tunnels
You need to know and understand:	K5	potential risk scenarios which could occur in and on the approaches to the tunnel(s) within your area of operations, including scenarios relating to vehicle and non-vehicle related incidents, fires, chemical spillages, traffic congestion, vehicle loads, weather hazards and planned maintenance
	K6	safety system response procedures for addressing fires and chemical spillages occurring in and on the approaches to the tunnel(s) within your area of operations, and your role and responsibilities associated with these procedures
	K7	the safety systems and equipment for dealing with potential risk scenarios which could occur in and on the approaches to the tunnel(s) within your area of operations
	K8	procedures for managing the safety systems in the tunnel(s) within your area of operations where there is total power failure, and also where there is a failure of the normal power supply and reliance is made upon a standby source
	Man	aging road traffic in a tunnel
You need to know and understand:	K9	the road network and associated infrastructure associated with the tunnel(s) in your area of responsibility
	K10	
	K11	safe access and egress routes for vehicles and personnel within the tunnel(s) in your area of responsibility
	K12	available alternative routes for road users unable to use the tunnel(s)

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		within your area of operations
	K13	speed limits in and on the approaches to the tunnel(s) within your area of operations, and the rationale for these
	K14	lighting requirements in and on the approaches to the tunnel(s) within
		your area of operations and how these are managed
	K15	
	K16	drainage and pumping arrangements within the tunnel(s) in your area of operations, and your role and responsibilities associated with managing these
	Man	aging incidents in a tunnel
You need to know and understand:	K17	the importance of undertaking risk assessments of incidents, the associated factors to consider when such incidents occur in and on the approaches to tunnels, and how to do this
	K18	the purpose of a command structure, and its importance and functions in relation to incident management
	K19	how to communicate within a command structure
	K20	how to identify when to hand over responsibility and the correct procedures for doing so
	K21	evacuation procedures for the tunnel(s) within your area of operations and your role and responsibilities associated with these procedures
	Use	of technology
You need to know and understand:	K22	the importance of assessing the impact of the performance of tunnel safety systems, including the criteria to be checked

K23 the importance of checking that tunnel safety systems are functioning and of identifying and reporting any faults in the systems

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