

Overview

What is this standard about?

This standard is about discharging ready mixed concrete with a concrete mixer truck. It covers the steps that a driver has to take to navigate the site for delivery, abide by site rules and take control of the area whilst discharging the product.

It also covers the use of the concrete mixer truck controls to maximise safety and fuel efficiency, and knowledge of the factors that affect fuel efficiency.

Who is this standard for?

This standard is relevant to drivers of concrete mixer trucks and those who are responsible for concrete mixer trucks within logistics organisations.

Discharge ready mixed concrete on site with a concrete mixer truck

Performance criteria*You must be able to:*

1. comply with the organisational procedures and all relevant legal, environmental, health and safety and operating requirements relating to concrete mixer truck operations
2. select, check and wear the correct PPE required
3. obtain the site procedures, information on site ground conditions and the delivery location
4. drive the concrete mixer truck at an appropriate speed based on the site procedures, site ground conditions, product consistency and quantity loaded
5. check if a banksman will be used on the site
6. monitor route for hazards and obstructions
7. maintain the required drum agitation revolution speed
8. navigate the concrete mixer truck to the delivery location on the site
9. check blind spots for hazards
10. follow site procedures and instructions for discharging the load, including instructions provided by banksman (if available)
11. manoeuvre the concrete mixer truck into a safe position for discharging the load
12. prepare the concrete mixer truck for discharging the load and secure the vehicle
13. communicate safe operating procedure to the customer
14. establish an appropriate a safe working area
15. position discharge equipment for discharging the product
16. control the drum rotation at the required speed so the product is discharged at the rate required by the customer
17. maintain a safe working area
18. discharge the product from the concrete mixer truck
19. secure discharge equipment
20. establish site wash off procedure
21. prepare concrete mixer truck for driving

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Knowledge and understanding

You need to know and understand:

1. the organisational procedures and all relevant legal, environmental, health and safety, and operating requirements relating to driving the concrete mixer truck on public roads
2. the hazards associated with handling ready mixed concrete
3. the risk assessments and safe operating procedures for the task
4. the responsibilities of the driver for the concrete mixer truck and the load
5. how the product can be affected by time, weather and temperature
6. the correct health and safety procedure for dealing with leaks or spillages of the load carried
7. how to select, check and wear the PPE required
8. the site signage, rules and procedures
9. the site process and procedure for washing off
10. how the quantity and specification of the product can affect the behaviour and speed of the concrete mixer truck
11. the designated routes on the site and discharging location
12. how to plan an efficient route on the delivery site abiding by legal, safety and operating requirements
13. how to evaluate the ground conditions
14. how to evaluate a safe position for discharging the product
15. the process for any excess concrete left in the drum following unloading of the product
16. how to prepare the concrete mixer truck for discharging the product
17. how to secure the concrete mixer truck ready for discharging the product
18. who to inform of the safe operating procedure for discharging the product
19. what is a safe working area
20. how to attach and secure the discharge equipment
21. the various methods of discharging ready mixed concrete
22. how to control the rotation direction and rotation speed of the drum for discharging the product at the required rate
23. how to establish if the drum is empty of product
24. how to prepare the concrete mixer truck for driving

Glossary

Controls: accelerator, clutch, footbrake, handbrake, steering wheel, gears, indicators, lights, windscreen wipers, demisters, heating and ventilation, Power Take Off (PTO), differential lock

Instruments: gauges, warning lights, displays, audible alerts, tachograph, telematics, slump gauge tyre-pressure indicators, coolant levels, oil levels, air pressure

Legal, safety and operating requirements: Highway Code, transport regulations, safety regulations, codes of practice, organisational requirements

Vehicle systems: Ignition, electrical, lights, brakes, transmission, engine, fuel, tyres, coupling, information technology, digital, communications and telemetry systems, ancillary equipment, loading, unloading, temperature control

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Developed by	MPQC
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Version Number	1
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Date Approved	1 May 2024
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Indicative Review Date	1 May 2028
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Validity	Current
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Status	Original
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Originating Organisation	MPQC
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Original URN	MPQC-MPV04
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Relevant Occupations	Transport Drivers and Operatives
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Suite	Driving Goods Vehicles
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Keywords	concrete mixer truck; screed; ready mixed concrete; ballast-crete; shotcrete
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