

UKTTE14

Carry out routine inspection of Tram vehicle assets, components and equipment



Overview

This standard is about carrying out routine inspection of Tram vehicle assets, components and equipment. It is about being able to access and carry out checks and tests to confirm that the assets, components and equipment are appropriate for operational use. You will be able to record and report and defects or variations in line with organisational procedures.

This standard is for those who work in the Tram engineering environment.

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Performance criteria

- You must be able to:*
- P1 identify and follow the **information and documentation** for the Tram vehicle **asset, component or equipment** being inspected
 - P2 select and prepare inspection tools and equipment
 - P3 carry out routine inspection **activities** in the required sequence using methods and techniques approved by your organisation
 - P4 identify and record any defects or variations to Tram vehicle assets, components and equipment in line with your organisation's procedures

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Knowledge and understanding

You need to know and understand:

- K1 the different **types** of routine inspections of Tram vehicle assets, components and equipment
- K2 the importance of carrying out routine inspections prior to a Tram vehicle returning to operational service
- K3 the information and documentation relevant to the Tram vehicle assets, components and equipment being inspected
- K4 the range of routine inspection methods and techniques
- K5 the methods and techniques for **preparing** inspection tools and equipment
- K6 the inspection acceptance criteria, including tolerances, where relevant
- K7 the routine inspection methods and techniques for Tram vehicle assets, components and equipment
- K8 how defects and variations can affect the safety and performance of the Tram vehicle
- K9 when to observe multiple operations of Tram vehicle assets, components and equipment to ensure it is functioning correctly
- K10 your organisation's procedures for recording and reporting defects and variations to Tram vehicle assets, components and equipment

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Additional Information

Scope related to performance criteria

P1 **Information and documentation** may include; specifications, diagrams, previous inspection data, electronically stored information, manufacturers manuals, Tram vehicle maintenance records, defect reports, repair schedules, wiring and circuit diagrams. **Asset, components and equipment** may include; mechanical (wheel sets, bogies, suspension, gear boxes, final drives, pumps, engines, mechanical structures, doors, compressors, control valves, brakes), electrical (power supplies, motors, switch gears, distribution panels, luminaries, wiring enclosures), ancillary (security camera, CCTV, passenger information displays, audio systems, wi-fi, trims and fittings (panels, coverings, safety equipment, storage, fixtures, signage), air conditioning, ventilation and temperature control.

P3 **Activities** may include; wire count, integrity check, condition check, wear and tear, visual and aural checks, electrical measurements, fuse checks, non-destructive testing.

Scope related to knowledge criteria

K1 **Types** may include; final inspection, continuous monitoring, non-destructive testing, spot check.

K5 **Preparing** may include; calibration, setting up, switching on.

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Additional Information

Glossary

Tram

Tramcars, tram vehicle, and any other rail vehicles that operate on tramways. It includes one or more trams coupled together and includes non-passenger-carrying vehicles.

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