

## UKTTWE03

# Carry out routine inspection of the Tramway assets, components and equipment



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### Overview

This standard is about carrying out routine inspection of the Tramway 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.

Assets, components and equipment may include those relating to:

- Electrification
- Signalling
- Telecommunications
- Track
- Trackside environment

Routine inspections may include assets, components and equipment that is:

- Electrical
- Hydraulic
- Mechanical
- Pneumatic
- Electronic
- Thermal (fixed, temporary)

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

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### Performance criteria

- You must be able to:*
- P1 identify and follow the **information and documentation** for the Tramway **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 Tramway 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 Tramway assets, components and equipment
- K2 the importance of carrying out routine inspections of the Tramway
- K3 the range of information and documentation relevant to the Tramway 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 Tramway assets, components and equipment
- K8 how defects and variations can affect the safety and performance of the Tramway
- K9 your organisation's procedures for recording and reporting defects and variations to Tramway 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, Tramway maintenance records, defect reports, call logs, repair schedules, method statements. **Asset, components and equipment** may include; running rails, sleepers, fastenings, ballast, drainage, sealants/encapsulation, signalling cables, switch rails, crossings, point machines, tram detection systems, city sleepers, tram stops, signage, platforms, shelters, overhead line (OHL), small part steel work.  
P3 **Activities** may include; cab riding, track walking, gauge and twist checks, rail wear, maintenance checks, expansion joint checks, overhead line visual inspection, debris/obstruction checks, structural inspection.

#### Scope related to knowledge criteria

K1 **Types** may include; final inspection, continuous monitoring, non-destructive testing, spot check, technical reports.  
K5 **Preparing** may include; calibration, setting up, condition checks.

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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.

##### **Tramway**

Includes the tramway (a set of rails, switches and crossings which form the route of a Tram) , infrastructure (fixed assets used for the running of the Tram transport system, including, the tramway, bridges, tunnels, stops, stations and fixed equipment for signalling, communications and electrification), depots, stabling yards.

##### **Trackside environment**

Includes structures, platforms, embankments.

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**Developed by** UK Tram

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**Version number** 1

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**Date approved**

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**Indicative review date**

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**Validity** Current

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**Status** Original

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**Originating organisation** New NOS

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**Original URN** New

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**Relevant occupations** Transport Operations and Maintenance

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**Suite** Tramway Engineering

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**Key words** Tram, Tramway, inspection, infrastructure

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