

UKTTE16

Carry out routine maintenance of Tram vehicle assets, components, equipment and systems



Overview

This standard is about carrying out routine maintenance on Tram vehicle assets, components, equipment and systems. You will be able to carry out routine maintenance on a range of interactive technologies such as, mechanical, electrical, fluid power, process controller and communication systems. These activities will be undertaken regularly and under the guidance of a team leader or supervisor. You will be able to interpret information relating to the routine maintenance activities and undertake these activities using approved methods and procedures. At all times you will follow approved health and safety procedures and take precautions to prevent damage to surrounding equipment and systems.

You will know and understand the importance of securing the area prior to routine maintenance activities taking place as well as undertaking activities in the correct sequence.

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

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Performance criteria

You must be able to:

- P1 source and interpret **information** required for the **routine maintenance** activity
- P2 identify the **health and safety procedures** that must be followed
- P3 confirm the routine maintenance **activities** to be carried out and determine their sequence
- P4 identify and confirm the **resources** required
- P5 identify where resources are not available and deal with the deficiency in line with your organisation's procedures
- P6 confirm the timescales required to complete the planned routine maintenance activities
- P7 take precautions to prevent damage to surrounding equipment, components and systems during routine maintenance activities
- P8 carry out routine maintenance activities on Tram vehicle assets, components, equipment and systems using methods and procedures approved by your organisation
- P9 complete maintenance records in line with your organisation's procedures

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Knowledge and understanding

You need to know and understand:

- K1 the importance of **securing the area** prior to routine maintenance activities taking place
- K2 how to safely access the Tram vehicle asset, component, equipment and system
- K3 the hazards associated with working on or near **components or assemblies**
- K4 the methods and techniques for releasing stored energy or substances
- K5 the basic principles of how Tram vehicle assets, components and equipment function
- K6 how to source and interpret information required for the routine maintenance activities
- K7 the basic principles of how Tram vehicle systems function and interact with other systems
- K8 the limits of own authority when carrying out planned maintenance activities on Tram vehicle assets, components, equipment and systems
- K9 the range of precautions that can be taken to prevent damage to surrounding Tram vehicle equipment, components and systems
- K10 the methods and procedures for routine maintenance activities on Tram vehicle assets, components, equipment and systems
- K11 the importance of carrying out routine maintenance activities in the correct sequence and within agreed timescales
- K12 when and how to perform an inventory of tools, equipment and components
- K13 the methods and procedures for the re-use and discarding of components
- K14 the importance of observing sufficient operations of the Tram vehicle assets, components, equipment and systems prior to completion of routine maintenance activities
- K15 the problems that can occur during routine maintenance activities and the organisational procedures for dealing with these

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Additional Information

Scope related to performance criteria

P1 **Information** may include; electronic or paper records and documents such as, drawings, defect history, fault reports, handbooks, manuals, charts, maintenance specifications, maintenance history, permits, warrantee, instructions, schedules, catalogues, logbooks. **Routine maintenance** may include; scheduled, planned preventative, condition based, total preventative.

P2 **Health and safety procedures** may include; authorised access/egress points, signage, lighting, CCTV, walking to and from a work site, planned protection arrangements, emergency stop protection arrangements, possession arrangements, isolation requirements, communication/warning arrangements and techniques, positions of safety, safety zones, lookout arrangements, first aid points, emergency assembly point, safety briefings, fire evacuation, working at height requirements, working in confined spaces requirements, authorised walking routes, Personal Protective Equipment (PPE) requirements, insulated tools/rubber matting, emergency service support (as required), walking to and from a vehicle, designated parking areas.

P3 **Activities** may include; sensory checks, electrical measurements and adjustments, mechanical measurements and adjustments, routine servicing/wiring/fuse checks, replacement, dismantling, reassembling, cleaning, cutting grinding, planning, lubricating, condition checks, checking gauges/sensors, routine adjustments, aligning, tightening, leak checks, torque loading, replacing consumables (batteries, filters, fluids, seals, bearings, belts), testing, marking/labelling, system review/analysis.

P4 **Resources** may include; components, consumables, personnel, tools and equipment, test equipment, waste disposal, personal protective equipment, lifting equipment

Scope related to knowledge criteria

K1 **Securing the area** may include; isolation, lock off, permit to work, warning notices.

K3 **Components or assemblies** may include; mechanical, electrical, electronic, hydraulic, pneumatic, systematic, fixtures and fittings.

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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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