
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 as scheduled and under the guidance of a team leader or supervisor and will involve understanding the range of Tram vehicle assets, components, equipment and systems. You will be able to interpret information relating to the routine maintenance activities and undertake these activities using organisational approved methods and procedures. At all times you will follow approved organisational and regulatory 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.

Performance criteria

You must be able to:

- P1 confirm you are wearing the correct PPE (Personal Protective Equipment) and following the relevant **health and safety procedures**
- P2 source and interpret the relevant **information** required for the **routine maintenance** activity
- P3 wear Personal Protective Equipment (PPE) in line with your organisation's procedures
- P4 identify the routine maintenance **activities** to be carried out, the timescales required and determine their sequence
- P5 identify the **resources** required for the routine maintenance
- P6 identify when resources are not available and deal with the deficiency of resources in line with organisational procedures
- 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 organisational methods and procedures
- P9 complete maintenance records in line with organisational procedures

Knowledge and understanding

You need to know and understand:

K1 the relevant health and safety procedures appropriate to the routine maintenance activity including safe systems of work K2 the importance of **securing the area** prior to routine maintenance activities taking place K3 how to safely access the Tram vehicle assets, components, equipment and systems K4 the hazards associated with working on or near **components or assemblies** K5 the methods and techniques for releasing stored energy or substances K6 the way in which Tram vehicle assets, components and equipment are intended to function in line with organisational procedures K7 how to source and interpret information required for the routine maintenance activities K8 the ways in which Tram vehicle systems can interact with other systems in the Tramway environment K9 the limits of your own authority and competency when carrying out planned maintenance activities on Tram vehicle assets, components, equipment and systems K10 the range of precautions that can be taken to prevent damage to surrounding Tram vehicle equipment, components and systems K11 the methods and organisational procedures for routine maintenance activities on Tram vehicle assets, components, equipment and systems K12 the importance of carrying out routine maintenance activities in the correct sequence and within agreed timescales K13 when and how to perform an inventory of tools, equipment and components K14 the methods and organisational procedures for the re-use and discarding of components K15 the importance of observing sufficient operations of the Tram vehicle assets, components, equipment and systems prior to completion of routine maintenance activities K16 the problems that can occur during routine maintenance activities and the organisational procedures for dealing with these K17 your organisation's procedures for recording and reporting routine maintenance activities to Tram vehicle assets, components and equipment

Scope/range related to performance criteria

P1 ****Health and safety**** ****procedures**** ********may include; ergonomic working, moving and manual handling, Personal Protective Equipment (PPE), working time and breaks, lone working, Personal Track Safety, safe systems of work (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, emergency service support (as required), walking to and from a vehicle, designated parking areas). P2 ****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. P3 ****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. P5 ****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. P6 ****Resources**** may include; components, consumables, personnel, tools and equipment, test equipment, waste disposal, personal protective equipment, lifting equipment.

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Scope/range related to knowledge and understanding

K2 **Securing the area** may include; isolation, lock off, permit to work, warning notices.

K4 **Components or assemblies** may include; mechanical, electrical, electronic, hydraulic, pneumatic, systematic, fixtures and fittings.

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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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