

UKTTE04

Obtain, use and interpret technical engineering information in the Tram and Tramway environment



Overview

This standard is about being able to obtain, use and interpret technical engineering information in the Tram and Tramway environment. You will be able make effective use of text, numeric and graphical information, by interpreting and using technical information extracted from engineering documentation such as drawings, technical manuals, reference tables, specifications, charts or electronic displays, in accordance with approved procedures. You will be required to extract the necessary information from the various sources to support work activities and to make valid decisions about the quality and accuracy of the work produced. Your responsibilities will require you to comply with organisational policy and procedures for obtaining and using the data and documentation. You will be expected to report any problems with the use and interpretation of the technical information to the relevant person within your organisation and in line with organisational requirements.

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

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Performance criteria

- You must be able to:*
- P1 obtain the **technical engineering information** from an **approved source** in the Tram and Tramway environment
 - P2 check the information is valid and up to date
 - P3 use and interpret the relevant technical engineering information in the Tram and Tramway environment
 - P4 source additional information where gaps or deficiencies are identified
 - P5 deal with **problems** in line with your organisation's procedures
 - P6 ensure all information is stored in line with your organisation's procedures after use
 - P7 report any inaccuracies or discrepancies in information in line with your organisation's procedures

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Knowledge and understanding

You need to know and understand:

- K1 the importance of accurate and relevant technical engineering information for use in your work activities in the Tram and Tramway environment
- K2 the range of technical information sources used in your work activities and how to access them
- K3 the range of technical language, symbols, abbreviations, and conventions used, where relevant
- K4 the basic principles of confidentiality (including what information should be available and to whom)
- K5 the different ways and formats that technical engineering information can be presented
- K6 the ways of confirming information is correct and up to date
- K7 the importance of differentiating fact from opinion when obtaining and using technical engineering information
- K8 the methods and techniques for obtaining, using and interpreting technical information for specific engineering purposes
- K9 how to report discrepancies in information in line with your organisations requirements
- K10 when and how to obtain additional information
- K11 the information care, control and storage procedures set by your organisation
- K12 how different types of technical engineering information can interrelate

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Additional Information

Scope related to performance criteria

P1 **Technical engineering information** may include; materials, components, dimensions, tolerances, build quality, installation requirements, customer requirements, calibration requirements, time scales, financial information, operating parameters, surface texture requirements, location/orientation of parts, treatments required, dismantling/assembling sequence, inspection/testing requirements, fault finding procedures, safety/risk factors, environmental controls, number/volume required, repair/service method, weld type/size, surface finish required, shape/profile.

Approved source may include; plans, specifications, drawings, schematics, briefs, risk assessments, diagrams, designs, illustrations, charts, spreadsheets, databases, parts lists, manuals, guides, catalogues, photographic representations, sketches, test schedules, instructions, quality control documents, computer-based systems and sources (e.g. asset management system).

P5 **Problems** may include information which is; missing, incorrect, out of date, invalid, deficient.

Scope related to knowledge criteria

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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 environment

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.

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Developed by UK Tram

Version number 1

Date approved

Indicative review date

Validity Current

Status Original

Originating organisation New NOS

Original URN New

Relevant occupations Transport Operations and Maintenance

Suite Tram Engineering

Key words Tram, Tramway, information, technical
