

UKTTE15

Plan engineering activities in the Tram and Tramway environment



Overview

This standard is about planning engineering activities in the Tram and Tramway environment. It is about being able to access the relevant information regarding the activities to be undertaken and determine the resources required. You will know the type and range of plans to be produced and will ensure that the information gathered is relevant to the work to be carried out. You will be able to take into account the activities to be undertaken and the limitations of the work environment. The complexity of the plan will depend on the nature or size of the activity to be undertaken. You will know and understand how to prioritise activities and how to adapt and change plans when objectives cannot be achieved.

This standard is for those who work as a technician or supervisor in the engineering or construction Tram and Tramway environment.

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Performance criteria

You must be able to:

- P1 identify and analyse **information** required for the engineering activity
- P2 identify the **health and safety procedures** that must be followed
- P3 confirm the activities to be carried out and determine their sequence
- P4 establish the methods and techniques required to complete the engineering activities
- P5 identify and confirm the **resources** required
- P6 identify where resources are not available and deal with the deficiency in line with your organisation's procedures
- P7 confirm the timescales required
- P8 prepare a work plan in line with your organisation's requirements
- P9 discuss and agree effective and efficient alternatives where planned activities cannot be achieved

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Knowledge and understanding

You need to know and understand:

- K1 the importance of planning engineering activities in the Tram and Tramway environment
- K2 the types of resources used during engineering activities in the Tram and Tramway environment
- K3 how to allocate and confirm resources within own area of responsibility
- K4 the different **types of engineering plans** required in the Tram and Tramway environment
- K5 the **methods and techniques** used when planning engineering activities in the Tram and Tramway environment
- K6 how to **prepare** a plan
- K7 how to prioritise engineering activities to achieve **objectives**
- K8 how and when planned engineering activities cannot be achieved
- K9 how to adapt and change plans when activities cannot be achieved

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Additional Information

Scope related to performance criteria

- P1 **Information** may include; financial information, methods statements, specifications, risk assessments, instructions, asset management system.
- P2 **Health and safety procedures** may include; local safety certificates, safe systems of work, personal protective equipment, risk assessments, environmental conditions, hazards, working time and breaks, moving and manual handling, personal track safety, competency requirements.
- P5 **Resources** may include; documentation, tools, plant, equipment (calibrated and serviceable), replacement components, materials, consumables, communications equipment, safe systems of work equipment, personnel, workspace/area, support from other departments/teams/outside stakeholders.

Scope related to knowledge criteria

- K3 **Types of engineering plans** may include; lifting plans, maintenance activities, testing and trialling, research and development, new product/component introduction, logistical operations, site facilities and access, modification and repair activities, assemble activities, installation activities, diagnostic activities, finishing activities, cleaning activities.
- K4 **Methods and techniques** may include; activity planning (charts, check lists, logs), project start and delivery time/milestones, key performance indicators, budgeting, quality measuring and control, resource allocation, communication strategies, risk management, identification of roles and responsibilities, contingency planning.
- K6 **Prepare** may include; presentation, structure, style, clarity.
- K7 **Objectives** may include; cost, efficiency, quality, timescales.

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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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