

LANCS25 SQA Unit Code H598 04

Carry out maintenance and repair of equipment and machinery

Overview

This standard covers the maintenance and repair of equipment and machinery. Maintenance may be periodic as recommended by the manufacturers in order to optimise the performance and maximise the working life of the equipment or machinery, or may be required due to defects or faults. You will carry out all activities in accordance with specifications.

If you are working with chemicals or machinery you need to be appropriately trained in line with current legislation, and hold a relevant award where appropriate.

You must carry out your work in a way which will consider any impact on the natural environment.

This standard is suitable for anyone with responsibility for routine maintenance and repair of equipment and machinery.

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Performance criteria

- You must be able to:*
- P1 identify and prepare equipment and machinery for maintenance or repair
 - P2 locate relevant maintenance specifications
 - P3 identify the need for advice and assistance and refer to the appropriate person
 - P4 make sure the equipment and machinery requiring maintenance or repair is safe and has been properly prepared
 - P5 take the correct precautions to prevent the escape of substances and minimise dangers from contamination and hazardous chemicals
 - P6 keep the work area safe and in a condition suitable for the maintenance or repair work
 - P7 select and prepare tools, equipment and materials suitable for the maintenance or repair, including personal protective equipment
 - P8 obtain replacement components/parts required to complete the work
 - P9 identify and mark up components for disassembly and re-assembly purposes
 - P10 carry out maintenance and repair of equipment and machinery in accordance with specifications and legislation
 - P11 reset equipment and machinery if required, following maintenance or repair
 - P12 carry out all work in accordance with relevant environmental and health and safety legislation, risk assessment requirements, codes of practice and company policies
 - P13 clean, service and store maintenance tools safely and effectively
 - P14 deal with waste safely and correctly in accordance with legislation
 - P15 complete records as appropriate

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Knowledge and understanding

You need to know and understand:

- K1 the equipment or machinery that requires maintenance or repair and what needs to be done
- K2 the reasons for maintaining equipment and machinery and the possible consequences of not doing so
- K3 legislative requirements relating to the maintenance of equipment and machinery
- K4 manufacturers requirements for the maintenance of equipment and machinery
- K5 actions which might invalidate the manufacturers warranty
- K6 where to locate the maintenance specifications
- K7 how to identify defects and faults on equipment and machinery
- K8 methods of preparing equipment and machinery for maintenance or repair
- K9 the dangers created by stored energy and how these should be responded to during the preparation stage
- K10 hazardous chemicals and substances which may be present and ways in which they should be dealt with
- K11 the type of tools, equipment and materials required for the maintenance or repair work
- K12 the reasons for, and correct use of different types of personal protective equipment
- K13 procedures for obtaining replacement components/parts
- K14 ways of marking up components for disassembly and re-assembly and the reasons for doing this
- K15 methods for maintaining equipment and machinery and the maintenance procedures
- K16 methods for repairing equipment and machinery and the repair procedures
- K17 methods of resetting equipment and machinery where required
- K18 levels of responsibility in relation to the maintenance or repair of equipment and machinery and to whom to refer problems
- K19 your responsibilities under relevant environmental and health and safety legislation, codes of practice and company policies
- K20 how to store tools, equipment and materials in a safe and effective condition
- K21 how to handle, transport, store and dispose of waste and hazardous chemicals and substances in accordance with legal and organisational requirements
- K22 how to minimise any potential impact of your work on the environment
- K23 the records which need to be completed

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Glossary

Specifications:

- drawings
- schedules
- method statements
- Standard Operating Procedures (SOPs)
- manufacturers' guidelines
- customer requirements

Instructions includes verbal or written.

Equipment and machinery may be manual or mechanical.

Stored energy:

- springs
- belt tension
- hydraulic pressure
- electrical discharge

Tools used to carry out the maintenance procedures will include hand tools and power tools.

Hazardous chemicals and substances could include:

- fuels
- oils
- fluids
- gasses
- dust
- compressed air

Waste may include hazardous and non-hazardous materials.

Links To Other NOS

Specialist maintenance and repair of land-based equipment and machinery is covered in the Land-based Machinery Operations suite.

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