
Overview

This covers maintaining and repairing structures and surfaces. Structures may be permanent or temporary and could include; drains, fences, sheds, animal holding pens, polytunnels and workshops. Surfaces could include standing areas, container beds, roads and pathways. Such structures and surfaces will require some form of ongoing maintenance and, at some point, will be in need of repair in order that they can continue to be used safely.

You are required to carry out maintenance and repair in a safe and effective way according to the specification. Maintenance will be undertaken in a routine and planned way, and when it is required due to certain circumstances (e.g. after severe weather). You are expected to identify, through regular monitoring and maintenance, when structures or surfaces require some form of repair. It is important that you recognise the limits of your competence, therefore, you must be able to accurately identify cases when the repairs required are beyond your ability and should be undertaken by someone else.

The unit is designed to be appropriate for the maintenance and repair of surfaces and structures using hand-held or pedestrian controlled power tools. There is no requirement within the unit to use chainsaws, although this would be possible if you hold the appropriate certificate of competence.

During both maintenance and repair, you may have to deal with unforeseen events such as accidental damage to a structure or an environmental risk from pollution. You must be able to perform competently in such events.

1. Maintain structures and surfaces
2. Repair structures and surfaces

Performance criteria

You must be able to:

Maintain structures and surfaces

- P1 prepare and maintain the necessary equipment and materials for the work in a fit state for use
- P2 prepare the structure or surface and the surrounding site in a manner appropriate for the maintenance which is to be carried out
- P3 maintain the structure or surface to **specification** at the appropriate time
- P4 use tools and equipment correctly and in a way which achieves their purpose
- P5 ensure methods, materials and equipment cause minimal disturbance to the site's environment
- P6 take the appropriate action when problems are encountered during the work
- P7 maintain health and safety during the work consistent with relevant legislation and codes of practice
- P8 make sure that the structure or surface and its site meet **specifications** following operations
- P9 keep the necessary records accurate, legible and complete
- P10 manage **waste** safely and correctly
- P11 restore the site to a safe condition which is consistent with the surrounding environment and is clear of unwanted materials

Repair structures and surfaces

- P12 prepare the necessary equipment and materials for the work
- P13 prepare the structure or surface and the surrounding site in a manner appropriate for the repair
- P14 repair the structure or surface to **specification** at the appropriate time
- P15 use tools and equipment correctly and in a way which achieves their purpose
- P16 make sure that methods, materials and equipment cause minimal disturbance to the site and environment
- P17 take the appropriate action if problems arise during the work
- P18 maintain health and safety during the work consistent with relevant legislation and codes of practice
- P19 make sure that the structure or surface and its site meet **specifications** following operations
- P20 keep records which are accurate, legible and complete
- P21 manage **waste** safely and correctly
- P22 restore the site to a safe condition which is consistent with the surrounding environment and is clear of unwanted materials

Knowledge and understanding

You need to know and understand:

Maintain structures and surfaces

- K1 why surfaces and structures must be maintained and potential problems if not carried out
- K2 the equipment and materials which may be used and their usefulness in specific circumstances
- K3 methods of preparing, checking and adjusting, servicing, cleaning and storing the relevant equipment and materials
- K4 the preparation methods required prior to maintaining structures and surfaces
- K5 the requirements of the specification and how to finish the structure or surface so that it meets the specification
- K6 the different maintenance methods which would achieve the specification
- K7 working methods and systems which promote health and safety
- K8 the types of problems which may occur, including; accidental damage, pollution and not meeting the specification
- K9 the actions to take if any problems occur
- K10 health and safety risks in the maintenance of structures and surfaces
- K11 organisational health and safety policy
- K12 your specific responsibilities under legislation in relation to health, safety and the environment
- K13 the difference between organic and inorganic waste and how to dispose of both types safely and effectively
- K14 the purpose of the structure and surface and the relationship to the specification

You need to know and understand:

Repair structures and surfaces

- K15 the reasons for the repair work and potential problems if not carried out
- K16 the equipment and materials which may be used and their usefulness in specific circumstances
- K17 methods of preparing, checking and adjusting, servicing, cleaning and storing the relevant equipment and materials
- K18 the preparation methods necessary prior to the repair work
- K19 methods of repairing the structure and/or surface and any relationship to the planned use
- K20 the requirements of the specification
- K21 working methods and systems which promote the health and safety of yourself and others, and minimise the effect on the surrounding environment
- K22 health and safety risks during the repair of structures and surfaces
- K23 your organisational health and safety policy
- K24 your specific responsibilities under health, safety and environmental

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Maintain and repair structures and surfaces

legislation

- K25 the types of problems which may occur, including; accidental damage, pollution and not meeting the specification
- K26 how to minimise the likelihood of problems and what to do if they occur
- K27 how to dispose of organic and inorganic waste
- K28 the purpose of the structure and/or surface and the relationship of this to the specification

Additional Information

Scope/range related to knowledge and understanding

Maintain structures and surfaces

1. **specification** in relation to the categories:
 - 1.1. security
 - 1.2. quality
 - 1.3. design
 - 1.4. construction

2. manage **waste**:
 - 2.1. organic
 - 2.2. inorganic

Repair structures and surfaces

3. specification in relation to the categories:
 - 3.1. security
 - 3.2. quality
 - 3.3. design
 - 3.4. construction

4. manage **waste**:
 - 4.1. organic
 - 4.2. inorganic

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Developed by LANTRA

Version number 1

Date approved October 2008

Indicative review date October 2010

Validity Current

Status Original

Originating organisation LANTRA

Original URN CU20

Relevant occupations Agriculture, Horticulture and Animal Care; Horticulture and forestry; Construction Trades

Suite Production Horticulture V2; Crofters and Smallholders; Game and Wildlife Management

Key words permanent, temporary, safe, effective, routine
