

Create an open drainage system

Overview

This standard is about the creation of an open drainage system to a given specification.

The specification will include the route, profile, depth and grade of the drain together with the acceptable tolerances and the treatment of excavated material.

The specification also includes the requirements of both legislation and the employing or client organisation.

Drainage systems may be pre-marked by others but in many cases you will be required to mark the drains yourself.

When working with machinery you need to be appropriately trained, and hold current certification where required, in line with relevant legislation.

Your work must conform to all relevant legislation and codes of practice when carrying out this work.

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Performance criteria

You must be able to:

1. assess the risks associated with the site and the proposed work
2. select and implement appropriate working methods, in accordance with the assessed risks
3. select and use appropriate personal protective equipment (PPE) for the work
4. create an open drainage system that meets the given specification
5. make effective use of the available resources
6. select, prepare and use appropriate tools and equipment, safely and effectively
7. maintain the security of machinery and equipment on site
8. follow environmental good practice set by your organisation and the industry, and identify and protect environmental features
9. maintain the health and safety of yourself and others at all times, in accordance with relevant legislation

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Knowledge and understanding

You need to know and understand:

1. how to identify hazards and assess risks
2. how to interpret risk assessments
3. the selection, use and care of personal protective equipment (PPE)
4. how to interpret plans and specifications for an open drainage system
5. emergency planning and procedures relevant to the site
6. how to create open drains in various soils, including organic and mineral soils
7. how to extend an open drainage system
8. how to recognise specified aspects of the site, which should be preserved
9. the implications of terrain, soil texture and structure, season, weather and plant species
10. the implications of flow rate in open drainage systems
11. the types of tools and equipment required and how to maintain and use these safely and effectively
12. why it is important to maintain the safety and security of equipment and vehicles when on site
13. the potential impact of your work on the environment and how this can be minimised
14. your responsibilities under relevant environmental, health and safety legislation and codes of practice

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Scope/range

Specification covering:

- route
- profile
- depth
- grade
- flow rate
- treatment of excavated material
- tolerance of specification
- legislative and organisational environmental requirements

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Glossary

Site:

- open ground
- felled forest
- woodland sites

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Suite	Horticulture; Treework
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