

LANAHL19 - SQA Unit Code AT63 04

Create grassed and planted areas



Overview

The elements are:

1. Set and mark out sites ready for operations
2. Evaluate ground and environmental conditions
3. Prepare sites for soft landscape establishment
4. Establish planted areas
5. Establish grass swards

This unit is about establishing mixed grassed and planted areas. It assumes that the objectives and tolerances for the site are already worked out and that your work begins with setting and marking out. You are expected to work effectively throughout the unit with others: colleagues and subcontractors.

The sites involved may include:

1. landscape construction
2. planting
3. areas for restoration

In evaluating ground conditions, you are required to identify:

4. substrate structure
5. texture and condition
6. drainage characteristics
7. pH
8. any pest, disease and weed problems
9. any nutrient deficiencies
10. ground and air pollutants
11. the micro-climate

Preparation of the site should take account of each of the above.

The types of plants to be established may include:

12. trees
13. shrubs
14. container grown, bare root and root balled.

The establishment of grass may be done by:

15. laying turf, or
16. broadcasting seed

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Performance criteria

You must be able to:

Set and mark out sites ready for operations

- P1 identify objectives and tolerances for the **site** correctly
- P2 achieve objectives to required tolerances
- P3 use **site** markings to facilitate the next stage of operations
- P4 maintain equipment in a safe and effective condition throughout
- P5 maintain effective working relations with all relevant people throughout
- P6 minimise waste, damage and adverse environmental impact throughout
- P7 deal with any problems effectively and safely should any occur

You must be able to:

Evaluate ground and environmental conditions

- P8 make sure the purpose and scope of your evaluation is consistent with the proposed use for **site**
- P9 use evaluation methods that are consistent with the agreed purpose and scope
- P10 evaluate the **ground and environmental conditions** accurately
- P11 record findings and methods so that they can be used by others
- P12 maintain equipment in a safe and effective condition throughout
- P13 leave the **site** in a tidy and undamaged condition following operations
- P14 maintain effective working relations with all relevant people throughout
- P15 minimise waste and adverse environmental impact
- P16 deal with problems efficiently and safely should any occur

You must be able to:

Prepare sites for soft landscape establishment

- P17 prepare the **site's** substrate to a condition, nutrient status, profile and pH appropriate to specifications and function
- P18 minimise adverse environmental conditions
- P19 maintain the **site** in a suitable condition for planting and sward establishment as planned
- P20 monitor **site** main services continually throughout operations
- P21 keep equipment in a safe and effective condition throughout
- P22 keep the **site** undamaged and ready for the next stage of operations
- P23 maintain effective working relations with all relevant people throughout
- P24 minimise waste and adverse environmental impact throughout
- P25 deal with problems efficiently, effectively and safely should any occur

You must be able to:

Establish planted areas

- P26 identify and mark out planting sites accurately before beginning operations
- P27 check the specification and health of **plants** before planting, and reject unacceptable specimens
- P28 maximise the health, vigour and physical condition of **plants** through

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handling and planting methods

- P29 provide support and protection to the **plants**
- P30 leave the site in a tidy and undamaged condition following operations
- P31 maintain equipment in safe and effective condition throughout
- P32 maintain effective working relations with all relevant people throughout
- P33 minimise waste and adverse environmental impact throughout
- P34 deal with problems efficiently, effectively and safely should any occur

You must be able to:

Establish grass swards

- P35 mark out sites accurately before beginning operations
- P36 select **plant material** appropriate to intended purpose
- P37 check the specification and health of **plant material** on receipt and reject unacceptable material
- P38 use handling and establishment methods which maximise the health, vigour and physical condition of the sward
- P39 provide protection which is appropriate and effective
- P40 leave the site in a tidy and undamaged condition following operations
- P41 maintain equipment in a safe and effective condition throughout
- P42 minimise waste and adverse environmental impact throughout
- P43 deal with problems efficiently, effectively and safely should any occur

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Knowledge and understanding

You need to know and understand:

Set and mark out sites ready for operations

- K1 how to interpret landscape plans
- K2 the methods and equipment for setting out in horizontal and vertical planes
- K3 the mathematical and geometric principles used in setting out
- K4 the types of marking materials and factors affecting their selection
- K5 how site markings can facilitate next stages of operations
- K6 the methods of maintaining the range of equipment typically used
- K7 the possible types of adverse environmental impact and how to avoid it
- K8 what problems are likely to occur and how to manage these
- K9 the methods of detecting underground services
- K10 the principles and application of risk assessment
- K11 the statutory health and safety requirements and codes of practice relevant to setting and marking out

You need to know and understand:

Evaluate ground and environmental conditions

- K12 the principles and methods of measurement of ground and environmental conditions
- K13 the range of methods available to evaluate the implications of measurements taken and to which situations they may be appropriate
- K14 the effects of varying ground and environmental conditions on plant establishment and growth
- K15 the importance of keeping accurate records
- K16 what environmental pollution may occur and how to avoid it
- K17 the maintenance of equipment typically used in this work
- K18 what contingencies may occur and how to handle these effectively
- K19 the sources of information and analysis relating to ground and environmental assessment
- K20 the principles and application of risk assessment
- K21 the statutory health and safety requirements and codes of practice
- K22 the methods of monitoring health and safety requirements

You need to know and understand:

Prepare sites for soft landscape establishment

- K23 the principles and methods of site preparation
- K24 the principles and application of risk assessment
- K25 the range of preparation methods to achieve the required conditions
- K26 why the chosen methods are most appropriate
- K27 what adverse environmental impact may be brought about and how to avoid this
- K28 the methods to check that the site is ready for planting
- K29 the types of equipment which may be used and how to ensure the proper

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maintenance of these

- K30 what hazards may arise from services on site and how to minimise these
- K31 what problems may occur and how to deal with these effectively
- K32 the statutory health and safety requirements and codes of practice relevant to preparation of sites

You need to know and understand:

Establish planted areas

- K33 how to identify a representative sample of plants relevant to your workplace
- K34 the common and botanical names of plants
- K35 the factors affecting the timing and method of planting
- K36 the causes of damage and drying out and their prevention
- K37 methods of support and protection and how to apply them
- K38 the initial maintenance requirements for newly established planted areas
- K39 the principles and application of risk assessment
- K40 the methods of assessing plant health
- K41 the damage which may occur when handling plants and how to minimise this
- K42 the range of equipment which may be used in these operations and how to ensure its effective maintenance
- K43 what adverse environmental impact may occur and how to avoid this
- K44 what problems could affect operations and how to handle these effectively
- K45 the statutory health and safety requirements and codes of practice relevant to establishing planted areas

You need to know and understand:

Establish grass swards

- K46 how to identify a representative sample of grasses relevant to your workplace
- K47 The common and botanical names of plants
- K48 the factors affecting the timing and methods of establishment
- K49 the methods of assessing the health of turf
- K50 the safe handling techniques
- K51 the causes of damage and drying out and their prevention
- K52 the methods of protection and their application
- K53 the initial maintenance requirements for newly established swards
- K54 the principles of selecting and combining grass species for different applications
- K55 the principles of selecting turf and seeding mats for different applications
- K56 the principles and application of risk assessment
- K57 what adverse environmental conditions may occur and how to minimise these
- K58 what contingencies may affect operations and how to handle these effectively
- K59 the statutory health and safety requirements and codes of practice

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relevant to the establishment of swards

Additional Information

Scope/range related to performance criteria

Set and mark out sites ready for operations

1. **Sites:**
 - 1.1. areas for soft landscape construction
 - 1.2. areas for planting
 - 1.3. areas for restoration

Evaluate ground and environmental conditions

2. **Sites:**
 - 2.1. areas for soft landscape construction
 - 2.2. areas for planting
 - 2.3. areas for restoration
3. **Ground and environmental conditions:**
 - 3.1. substrate structure
 - 3.2. substrate texture and conditions
 - 3.3. drainage characteristics
 - 3.4. pH
 - 3.5. pest, disease and weed problems
 - 3.6. nutrient deficiencies
 - 3.7. ground and air pollutants
 - 3.8. microclimate

Prepare sites for soft landscape establishment

4. **Sites:**
 - 4.1. areas for soft landscape construction
 - 4.2. areas for planting
 - 4.3. areas for restoration

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5. **Plants:**
 - 5.1. trees
 - 5.2. shrubs
 - 5.3. container grown
 - 5.4. field grown

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6. **Plant material:**
 - 6.1. turf
 - 6.2. seed

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Developed by	LANTRA
Version number	1
Date approved	February 2008
Indicative review date	February 2010
Validity	Current
Status	Original
Originating organisation	LANTRA
Original URN	L19
Relevant occupations	Agriculture, Horticulture and Animal Care; Horticulture and forestry; Skilled Trades Occupations; Skilled Agricultural Trades; Elementary Occupations; Elementary Agricultural Occupations
Suite	Amenity Horticulture
Key words	amenity horticulture, evaluate, environmental, landscape, shrubs, trees, plants, pests, diseases, turf