



National Unit Specification: general information

UNIT Draining Sports Surfaces (SCQF level 5)

CODE F6V3 11

SUMMARY

This Unit allows the candidate to gain knowledge of the drainage of sports surfaces. Also this Unit will allow the candidate to carry out practical and effective drainage on a range of sports surfaces.

OUTCOMES

- 1 Describe the practical problems of draining sports surfaces.
- 2 Identify the range of drainage system layouts and materials used for sports surfaces.
- 3 Carry out basic maintenance work on a sports surface drainage system.
- 4 Carry out installation of a drain for a sports surface area.

RECOMMENDED ENTRY

Entry is at the discretion of the centre.

CREDIT VALUE

1 credit at SCQF level 5 (6 SCQF credit points at SCQF level 5*).

**SCQF credit points are used to allocate credit to qualifications in the Scottish Credit and Qualifications Framework (SCQF). Each qualification in the Framework is allocated a number of SCQF credit points at an SCQF level. There are 12 SCQF levels, ranging from Access 1 to Doctorates.*

Administrative Information

Superclass: SF

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National Unit Specification: general information (cont)

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CORE SKILLS

Achievement of this Unit gives automatic certification of the following:

Complete Core Skill	None
Core Skill component	Critical Thinking at SCQF Level 4 Planning and Organising at SCQF Level 4

There are also opportunities to develop aspects of Core Skills which are highlighted in the Support Notes of this Unit Specification.

National Unit Specification: statement of standards

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Acceptable performance in this Unit will be the satisfactory achievement of the standards set out in this part of the Unit Specification. All sections of the statement of standards are mandatory and cannot be altered without reference to SQA.

OUTCOME 1

Describe the practical problems of draining sports surfaces.

Performance Criteria

- (a) Describe the soil water related problems associated with drainage.
- (b) Describe the seasonal effects of water tables.
- (c) Identify the main indicators of poor drainage.

OUTCOME 2

Identify the range of drainage system layouts and materials used for sports surfaces.

Performance Criteria

- (a) Select drainage systems suitable for specific sports surfaces.
- (b) Describe the range of materials used for producing a sportsturf drainage system.

OUTCOME 3

Carry out basic maintenance work on a sports surface drainage system.

Performance Criteria

- (a) Identify the main components for maintenance.
- (b) Identify the correct equipment used for drainage maintenance.
- (c) Carry out operations safely with appropriate tools.
- (d) Reinstatement to required levels.

OUTCOME 4

Carry out installation of a drain for a sports surface area.

Performance Criteria

- (a) Select the appropriate tools and materials for installing a drain.
- (b) Prepare area for installing the drain.
- (c) Install drain safely to a suitable gradient.
- (d) Reinstatement to required levels.

National Unit Specification: statement of standards (cont)

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EVIDENCE REQUIREMENTS FOR THIS UNIT

Evidence is required to demonstrate that candidates have achieved all Outcomes and Performance Criteria.

All relevant operational procedures undertaken in this Unit must adhere to current health and safety legislation, regulations, codes of practice and manufacturers' recommendations where appropriate.

Outcome 1 — Written and/or recorded oral evidence

Written and/or recorded oral evidence is required which demonstrates that the candidate has achieved Outcome 1. The assessment will be a minimum of eight short answer responses which must cover PCs (a) and (b) and an identification of a minimum of six indicators of poor drainage.

Outcome 2 — Written and/or recorded oral evidence

Written and/or recorded oral evidence is required to demonstrate that the candidate has achieved Outcome 2. The open-book assessment will be an assignment which should not exceed 500 words and must include:

- ◆ Drainage systems
- ◆ Components
- ◆ Materials
- ◆ Appropriate illustrations of drainage system types/layouts and materials

Outcome 3 — Performance evidence

Performance evidence is required to demonstrate that the candidate has achieved Outcome 3. The assessment will be a practical activity, supported by appropriate assessor observation checklists, which allows the candidate to carry out appropriate maintenance activities relevant to their specific sports surface(s).

Outcome 4 — Performance evidence

Performance evidence is required to demonstrate that the candidate has achieved Outcome 4. The assessment will be a practical activity which allows the candidate to install a suitable drain appropriate to their given sports surface(s).

Centres must be satisfied that the evidence submitted is the work of individual candidates.

When using Performance Evidence, assessor observation checklists and other assessment records should be maintained and kept up to date to keep track of candidate progress and to provide evidence for internal and external verification purposes.

The Assessment Support Pack for this Unit provides information such as appropriate instruments of assessment, assessor checklists and assessor guidance. Centres wishing to develop their own assessments should refer to the assessment support pack to ensure a comparable standard.

National Unit Specification: support notes

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This part of the Unit Specification is offered as guidance. The support notes are not mandatory.

While the exact time allocated to this Unit is at the discretion of the centre, the notional design length is 40 hours.

GUIDANCE ON THE CONTENT AND CONTEXT FOR THIS UNIT

This Unit is an optional Unit of the National Certificate in Greenkeeping, but may also be taken as a free-standing Unit.

This Unit is aligned to the following Lantra, Sector Skills Council's National Occupational Standard (NOS) Units:

- (CU2) Monitor and Maintain Health and Safety
- (L27) Use and maintain equipment and machines
- (L2) Establish plants outdoors
- (CU5) Develop personal performance and maintain working relationships

This Unit should be approached with an holistic view of drainage, not only relating to subsurface 'physical' piped forms but also practical turf aeration which carries out much of the 'structural' soil drainage within the surface layers of the sports surfaces.

GUIDANCE ON LEARNING AND TEACHING APPROACHES FOR THIS UNIT

Outcome 1 should be balanced between the knowledge-based classroom activities with on-site observation of the problems. This could involve group discussions on-site to agree the problems and possible actions.

Outcome 2 must reflect and visually show a range of drainage layouts, pipe work and backfill materials.

Outcomes 3 and 4 should be carried out in practice to reflect the effective modern methods of installation and maintenance with correct and safe procedures demonstrated.

OPPORTUNITIES FOR CORE SKILL DEVELOPMENT

In this Unit candidates may have the opportunity to develop the following Core Skills:

- ◆ *Information Technology* (SCQF level 4), through researching drainage systems/layouts and materials
- ◆ *Numeracy* (SCQF level 4) through assessing pipe gradients
- ◆ *Working with Others* (SCQF level 4), through carrying out practical maintenance work
- ◆ *Communication* (SCQF level 4) through written and/or oral discussion and feedback during practical demonstrations

National Unit Specification: support notes

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GUIDANCE ON APPROACHES TO ASSESSMENT FOR THIS UNIT

Assessor observation checklists and other assessment records should be maintained and kept up to date to keep track of candidate progress and to provide evidence for internal and external moderation purposes.

If re-assessment is required, the centre must provide a sampling from a range of content within the Outcome.

Opportunities for the use of e-assessment

E-assessment may be appropriate for some assessments in this Unit. By e-assessment we mean assessment which is supported by Information and Communication Technology (ICT), such as e-testing or the use of e-portfolios or e-checklists. Centres which wish to use e-assessment must ensure that the national standard is applied to all candidate evidence and that conditions of assessment as specified in the Evidence Requirements are met, regardless of the mode of gathering evidence. Further advice is available in *SQA Guidelines on Online Assessment for Further Education (AA1641, March 2003)*, *SQA Guidelines on e-assessment for Schools (BD2625, June 2005)*.

DISABLED CANDIDATES AND/OR THOSE WITH ADDITIONAL SUPPORT NEEDS

The additional support needs of individual candidates should be taken into account when planning learning experiences, selecting assessment instruments, or considering whether any reasonable adjustments may be required. Further advice can be found on our website www.sqa.org.uk/assessmentarrangements