



## National Unit Specification: general information

**UNIT** Construction Operations: An Introduction to Repair and Reinstatement of Excavations and Pavement Surfaces (SCQF level 5)

**CODE** F6LH 11

### SUMMARY

This Unit covers essential knowledge and practical experience relating to the repair and reinstatement of excavations and pavement surfaces in the construction environment. The Unit is suitable for candidates who have had little or no experience to date in the construction environment and who want to gain and apply knowledge and understanding of repairing and reinstating excavations and pavement surfaces in the workplace environment. Candidates will safely prepare for, carry out and reinstate an excavation. This will include adhering to Health and Safety regulations and legislation at all times. This Unit is suitable for candidates working towards a Modern Apprenticeship in the Construction Operative and Specialist suite.

### OUTCOMES

- 1 Prepare for and carry out excavation of pavement layers and surfaces.
- 2 Carry out reinstatement of the excavation and pavement structure to given specifications.

### RECOMMENDED ENTRY

While entry to this Unit is at the discretion of the centre, candidates undertaking a National Progression Award at SCQF level 5, as part of a Modern Apprenticeship, must meet the necessary criteria which includes being employed in the relevant industry.

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#### Administrative Information

**Superclass:** TK

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## **National Unit Specification: general information (cont)**

**UNIT**        An Introduction to Repair and Reinstatement of Excavations and Pavement Surfaces (SCQF level 5)

### **CREDIT VALUE**

1 credit at SCQF level 5 (6 SCQF credits at 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.*

### **CORE SKILLS**

There is no automatic certification of Core Skills in this Unit.

This Unit provides opportunities to develop aspects of the following Core Skills:

- ◆ *Communication* at SCQF level 3
- ◆ *Numeracy* at SCQF level 3
- ◆ *Working with Others* at SCQF level 3

## **National Unit Specification: statement of standards**

### **UNIT        An Introduction to Repair and Reinstatement of Excavations and Pavement Surfaces (SCQF level 5)**

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**

Prepare for and carry out excavation of pavement layers and surfaces.

##### **Performance Criteria**

- (a) Accurately interpret the given information to identify the area to be excavated.
- (b) Correctly mark-off the area for excavation to receive backfill and sub-base layers.
- (c) Demonstrate and explain how to correctly select tools and equipment for the task.
- (d) Excavate an area no greater than 1m<sup>2</sup> and 900mm depth to receive backfill layers and sub-base layers.
- (e) Explain clearly how to select and store suitable excavated materials for re-use.

#### **OUTCOME 2**

Carry out reinstatement of the excavation and pavement structure to given specifications.

##### **Performance Criteria**

- (a) Select appropriate PPE equipment for a given task, in accordance with organisational requirements.
- (b) Select compaction equipment correctly for the given task.
- (c) Lay backfill and sub-base layers to correct depths and ensure optimum compaction is achieved.
- (d) Lay and compact bituminous materials to required depth for the material type used.
- (e) Demonstrate the correct adherence to statutory requirements and/or safety notices and warning signs displayed in the workplace.
- (f) Dispose of waste in accordance with legislation.

## **National Unit Specification: statement of standards (cont)**

**UNIT**        An Introduction to Repair and Reinstatement of Excavations and Pavement Surfaces (SCQF level 5)

### **EVIDENCE REQUIREMENTS**

Candidates should carry out a risk assessment before any practical activity.

Evidence is required to demonstrate that candidates have achieved all Outcomes and Performance Criteria. The specific Evidence Requirements for each Outcome are outlined below.

Written and/or oral evidence is required to demonstrate that the candidates have achieved Outcomes 1 and 2. The evidence will be produced under open-book supervised conditions within a time limit of 30 minutes.

Performance evidence supplemented with an assessor observation checklist is required to demonstrate that candidates have achieved all of the Performance Criteria in Outcomes 1 and 2. The evidence will be produced under supervised conditions at appropriate points in the Unit once candidates have developed the necessary knowledge and skills.

## **National Unit Specification: support notes**

### **UNIT           An Introduction to Repair and Reinstatement of Excavations and Pavement Surfaces (SCQF level 5)**

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

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

#### **GUIDANCE ON THE CONTENT AND CONTEXT FOR THIS UNIT**

The content and context of this Unit is aimed at candidates who are interested in pursuing a career in the construction environment. Candidates will be introduced to the repair and reinstatement of excavations and pavement surfaces and will gain practical experience of how to carry them out.

Throughout the Unit emphasis will be placed on the application of Safe Working Practices in line with current safety codes of practice and policies and regulations.

Centres may find opportunities to integrate this Unit with the mandatory Units.

Site conditions should reflect as near as possible realistic working conditions.

#### **GUIDANCE ON LEARNING AND TEACHING APPROACHES FOR THIS UNIT**

The learning environment for this Unit will be a combination of classroom and workshop based learning where the candidate will be involved in group activities and discussions. The knowledge element of this Unit would be taught in a classroom environment and put into practice in conjunction with the practical Outcomes.

Candidates could work in pairs or groups on the practical activity, although they will need to meet all Evidence Requirements individually.

E-learning approaches may be appropriate to help tailor delivery to suit the individual needs or learning styles of candidates. This might include, for example, encouraging learners to use electronic resources to conduct research into a specific knowledge area.

#### **OPPORTUNITIES FOR CORE SKILL DEVELOPMENT**

Opportunities may arise in this Unit for candidates to develop aspects of the following Core Skills:

- ◆ *Communication* at SCQF level 3 by reading and interpreting information
- ◆ *Numeracy* at SCQF level 3 by reading diagrams
- ◆ *Working with Others* at SCQF level 3 by working in groups

## **National Unit Specification: support notes (cont)**

**UNIT**        An Introduction to Repair and Reinstatement of Excavations and Pavement Surfaces (SCQF level 5)

### **GUIDANCE ON APPROACHES TO ASSESSMENT FOR THIS UNIT**

Centres may use the instruments of Assessment which they consider to be most appropriate. It is expected that candidates will be given as much practise as possible in the methods of safe working practice and risk assessment methods etc, prior to being set the assessment tasks.

For all Outcomes a suitable method for assessing candidate knowledge and understanding of repair and reinstatement of excavations and pavement structures could be through a set of multiple choice questions. To allow candidates to generate the Performance Evidence centres should set a series of practical assignments which accurately reflect the Unit content.

#### **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](http://www.sqa.org.uk/assessmentarrangements)