

Higher National Unit Specification

General information for centres

Unit title: Surveying Historic Buildings

Unit code: DW40 35

Unit purpose: This Unit is designed to enable candidates to gain knowledge and understanding of the process of carrying out a measured survey and historic building recording. The Unit commences with a measured survey of a historic building and the preparation of drawings by a CAD package to illustrate the layout, construction and appearance. This is followed by the inspection and recording of materials and their condition within the building.

On completion of the Unit candidates should be able to:

- 1 Carry out a measured survey of a historic building using hand surveying techniques and provide drawings to illustrate its layout, construction and appearance.
- 2 Carry out an inspection of a historic building to record its materials and condition and prepare a report.

Credit points and level: 1 HN Credit at SCQF level 8: (8 SCQF credit points at SCQF level 8*)

**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.*

Recommended prior knowledge and skills: It would be an advantage for candidates to have a basic knowledge and understanding of surveying techniques and Computer Aided Drawing. It is recommended that the following Units are completed prior to the commencement of this Unit: Computer Aided Design and Site Surveying.

Core Skills: There are opportunities to develop the Core Skills of Communication, IT, Problem Solving and Working with Others in this Unit, although there is no automatic certification of Core Skills or Core Skills components.'

Context for delivery: If this Unit is delivered as part of a Group Award, it is recommended that it should be taught and assessed within the subject area of the Group Award to which it contributes.

General information for centres (cont)

Assessment: The assessment for this Unit is based on a practical exercise to focus on the measured survey and recording of a historic building. It is important that candidates are directed to survey a building which is suitable for developing an appreciation of the principles involved ie it is neither too large, nor too small. It will be possible to survey only part of a historic building to complete the assessment.

An exemplar instrument of assessment and marking guidelines has been produced to provide examples of the type of evidence required to demonstrate achievement of the aims of this Unit and to indicate the national standard of achievement at SCQF level 8.

Higher National Unit specification: statement of standards

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The sections of the Unit stating the Outcomes, knowledge and/or skills, and Evidence Requirements are mandatory.

Where evidence for Outcomes is assessed on a sample basis, the whole of the content listed in the knowledge and/or skills section must be taught and available for assessment. Candidates should not know in advance the items on which they will be assessed and different items should be sampled on each assessment occasion.

Throughout this Unit emphasis will be placed where appropriate on the application of Health and Safety and Sustainability. Safe working practices should be looked at in accordance with current safety codes of practice and regulations. Sustainability should include reference to criteria affecting sustainability, impact of not implementing sustainability on the environment and the legislation promoting sustainability.

Outcome 1

Carry out a measured survey of a historic building using hand surveying techniques and provide drawings to illustrate its layout, construction and appearance

Knowledge and/or skills

- ◆ Site sketching
- ◆ Recording site dimensions
- ◆ Appropriately scaled CAD output

Evidence Requirements

In any assessment of this Outcome **all** knowledge and skills items should be included.

Candidates will need to provide evidence to demonstrate their knowledge and/or skills by showing that they can:

- ◆ undertake a measured survey and produce CAD drawings to scale showing a plan, section and elevation

Assessment guidelines

The assessment for this Unit is based on a practical exercise that will focus on the measured survey of a historic building. It is important that candidates are directed to survey a building that is suitable for developing an appreciation of the principles involved ie it is neither too large, nor too small. It is expected that students will prepare drawings in plan, section and an elevation and it will therefore be possible to survey only part of a historic building to complete the assessment.

Higher National Unit specification: statement of standards (cont)

Unit title: Surveying Historic Buildings

Outcome 2

In any assessment of this Outcome **all** knowledge and skills items should be included.

Carry out an inspection of a historic building to record its materials and condition and prepare a report

Knowledge and/or skills

- ◆ Description of a building and its setting
- ◆ Description of a range of materials and their condition
- ◆ Description of surface finishes
- ◆ Reporting

Evidence Requirements

Candidates will need to provide evidence to demonstrate their knowledge and/or skills by showing that they can:

- ◆ undertake an inspection, record materials and condition and prepare a report

Assessment guidelines

The assessment for this Unit is based on a practical exercise that will focus on the recording of materials and their condition and preparing a report. It is expected that the same building selected for Outcome 1 will be used in Outcome 2.

Administrative Information

Unit code:	DW40 35
Unit title:	Surveying Historic Buildings
Superclass category:	TD
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Higher National Unit specification: support notes

Unit title: Surveying Historic Buildings

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 has been written in order to allow candidates to develop knowledge, understanding and skills in the following areas:

- 1 Carrying out a measured survey of a historic building using hand surveying techniques and providing drawings to illustrate its layout, construction and appearance.
- 2 Carrying out an inspection of a historic building to record its materials and condition and prepare a report.

In designing this Unit the Unit writers have identified the range of topics they would expect to be covered by lecturers. The writers have also given recommendations as to how much time should be spent on each Outcome. This has been done to help lecturers to decide what depth of treatment should be given to the topics attached to each of the Outcomes. Whilst it is not mandatory for a centre to use this list of topics it is strongly recommended that it does so to because the assessment exemplar pack for this Unit is based on the knowledge and/or skills and list of topics in each of the Outcomes.

The list of topics is given below. Lecturers are advised to study this list of topics in conjunction with the assessment exemplar pack so that they can get a clear indication of the standard of achievement expected of candidates in this Unit.

1 Carry out a measured survey of a historic building using hand surveying techniques and provide drawings to illustrate its layout, construction and appearance. (20 hours)

- ◆ Using plans, sections and elevations
- ◆ Preparing plans, sections and elevations
- ◆ Methods of survey:
 - Hand survey — Tapes, levels and distance meters
 - Instrument survey — Theodolite methods, laser scanning
 - Photographic survey — Rectified photography, Stereo photogrammetry and Orthophotography
- ◆ Hand surveying — methods and techniques

Tutors should consider the use of current publications covering the measured survey and recording of historic buildings.

Guidance documents for practitioners is available from Historic Scotland which tutors and students will find useful.

Higher National Unit specification: support notes (cont)

Unit title: Surveying Historic Buildings

During the teaching of this Outcome students should be encouraged to practice the skills necessary by using rooms within the building to prepare sketches and record dimensions.

Many of the advanced methods of surveying buildings such as instrument survey and photographic survey could be explained with the use of the Internet to see the practical advantages of such techniques.

2 Carry out an inspection of a historic building to record its materials and condition and prepare a report. (20 hours)

In this part of the Unit the focus is on recording materials and their condition.

It is important that this Unit should be seen as developing an appreciation of the principles involved since the skills required takes practitioners a considerable number of years to achieve.

Tutors will require to focus on materials used in conservation, their identification and their condition. The range should consider walling materials, roofing materials, flooring, windows, doorway and doors.

Students should be shown how to prepare a report on the building.

In delivering this part of the Unit tutors should consider the use of case study material available from Historic Scotland. It would also be useful to visit a 'live' project where the process of undertaking a measured survey and recording is in progress.

Tutors should consider the use of current publications covering the measured survey and recording of historic buildings.

Guidance documents for practitioners is available from Historic Scotland which tutors and students will find useful.

Unit Assessment

This takes the form of two different assessments, one covering the content of Outcome 1 and one covering the content of Outcome 2. The assessment for this Unit is practical tasks and much of the assessment will be undertaken during the teaching of the Unit and be carried out under supervised controlled conditions which may permit some supervision of the candidates work.

Higher National Unit specification: support notes (cont)

Unit title: Surveying Historic Buildings

Guidance on the delivery and assessment of this Unit

Where this Unit is incorporated into other Group Awards it is recommended that it be delivered in the context of the specific occupational area(s) that the award is designed to cover.

Details on approaches to assessment are given under Evidence Requirements and Assessment guidelines under each Outcome in the Higher National Unit specification: statement of standards section. It is recommended that these sections be read carefully before proceeding with assessment of candidates.

Where available, evidence from the workplace can also be incorporated to enhance the learning Outcomes, provided that this evidence is appropriate and authenticated as the student's own work.

Opportunities for developing Core Skills

The following grid provides a general guide to opportunities for the development of Core Skills in this Unit. Opportunities for the development of Core Skills at the output level are more fully identified in the Core Skills Signposting Guide.

Core Skill	Outcome 1	Outcome 2	Outcome 3	Outcome 4	Outcome 5
1 Communication					
Reading					
Writing		✓			
Oral					
2 Numeracy					
Using Number					
Using Graphical Information					
3 IT					
Using Information Technology	✓				
4 Problem Solving					
Critical Thinking	✓				
Planning and Organising	✓	✓			
Reviewing and Evaluating	✓	✓			
5 Working with Others					

Higher National Unit specification: support notes (cont)

Unit title: Surveying Historic Buildings

Open learning

This Unit could be delivered by distance learning, which may incorporate some degree of on-line support. However, with regard to assessment, planning would be required by the centre concerned to ensure the sufficiency and authenticity of candidate evidence. Arrangement would be required to be put in place to ensure that the assessment, which is required to be at a single event, was conducted under controlled, supervised conditions.

For information on normal open learning arrangements, please refer to the SQA guide *Assessment and Quality Assurance of Open and Distance Learning* (SQA 2000).

Candidates with additional support needs

This Unit specification is intended to ensure that there are no artificial barriers to learning or assessment. The additional support needs of individual candidates should be taken into account when planning learning experiences, selecting assessment instruments or considering alternative Outcomes for Units. For information on these, please refer to the SQA document *Guidance on Alternative Assessment Arrangements for Candidates with Disabilities and/or Additional Support Needs*, which is available on SQA's website: www.sqa.org.uk.

General information for candidates

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This Unit has been designed to allow you to develop knowledge, understanding and skills in the process of carrying out a measured survey and historic building recording. The Unit commences with a measured survey of a historic building and the preparation of drawings by a CAD package to illustrate the layout, construction and appearance. This is followed by the inspection and recording of materials and their condition within the building.

The formal assessment for this Unit takes the form of two different assessments, one covering the content of Outcome 1 and one covering the content of Outcome 2. The assessment for this Unit are practical tasks and much of the assessment will be undertaken during the teaching of the Unit and be carried out under supervised controlled conditions which may permit some supervision of the candidates work.