



Higher National Unit specification

General information for centres

Unit title: Wall and Floor Tiling: Ornamental and Traditional Tiling

Unit code: F8MV 34

Unit purpose: This Unit is designed to enable candidates to develop their knowledge, understanding and skills of the preparation and fixing of wall and floor tiles to ornamental designs using traditional fixing techniques. This Unit is primarily designed to give candidates the practical skills and competence to carry out practical tasks in the fixing of wall and floor tiles and the re-furbishment, maintenance and re-instatement of ornamental designs using traditional techniques.

On completion of this Unit candidates should be able to:

- 1 Demonstrate knowledge and understanding of ornamental and traditional wall and floor tiling.
- 2 Fix wall tiles to an ornamental design using sand and cement mortar.
- 3 Fix floor tiles to an ornamental design using sand and cement mortar.
- 4 Refurbish and reinstate ornamental and traditional wall and floor tiles.

Credit points and level: 1 HN credit at SCQF level 7: (8 SCQF credit points at SCQF level 7*)

**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: Access to this Unit will be at the discretion of the centre. It would be beneficial if candidates have successfully completed the Professional Development Award (PDA) in Wall and Floor Tiling at SCQF level 6 (G9AP 46) or have the equivalent level of industrial experience and prior learning.

Core Skills: There are opportunities to develop the Core Skills of *Working with Others*, *Communication*, *Information and Communication Technology* and *Numeracy* at SCQF level 4 and *Problem Solving* at SCQF level 5 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. This Unit was developed as part of the Professional Development Award in Wall and Floor Tiling at SCQF level 7 and is aimed at candidates following a career in Wall and Floor Tiling and receiving complementary industrial experience.

General information for centres (cont)

Assessment: This Unit is assessed on the candidate's actual performance of fixing and reinstating ornamental and traditional wall and floor tiles using traditional methods. The candidate will also have to show knowledge and understanding of the associated materials, methods, procedures and tile patterns.

Evidence will be gathered through observation of work processes and assessment of the completed work. Assessment should be carried out under controlled, supervised conditions. In order to achieve this Unit, candidates are required to present sufficient evidence that they have met all the Knowledge and/or Skills elements for each Outcome. Details of these requirements are given for each Outcome.

The assessment instruments used should follow the general guidance offered by the Scottish Qualifications Authority (SQA) assessment model and an integrative approach to assessment is encouraged. Centres may use the instruments of assessment which they consider to be most appropriate but are advised to use the Wall and Floor Tiling Training and Assessment Programme (TAP) SCQF level 7 which has been developed centrally by SQA. Any other instruments of assessment used must be comparable to the TAP 7.

Accurate records should be made of the assessment instruments used showing how evidence is generated for each Outcome and given marking schemes, checklists and recorded candidate feedback. Records of candidates' achievements should be retained. These records must be made available for external verification.

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.

Outcome 1

Demonstrate knowledge and understanding of ornamental and traditional wall and floor tiling

Knowledge and/or Skills

- ◆ Materials, equipment and tiles
- ◆ Preparation and setting out methods
- ◆ Ornamental and traditional tiling
- ◆ Traditional tile fixing
- ◆ Traditional and ornamental patterns
- ◆ Drawing of tile patterns
- ◆ Current Health and Safety considerations

Evidence Requirements

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

- ◆ describe the materials and equipment used in ornamental wall and floor tiling
- ◆ describe the background and tile preparation methods used prior to the traditional fixing of ornamental wall and floor tiling designs
- ◆ describe setting out methods for ornamental designs
- ◆ describe the traditional methods of fixing wall and floor tiles
- ◆ produce accurate technical drawings for traditional ornamental wall and floor tiling patterns

Evidence must be gathered under controlled, supervised, open-book conditions. Candidates may bring to the event any notes that they have made personally. They may not bring textbooks, handouts or other material not prepared by them.

Assessment Guidelines

The assessment could be in the form of an assignment where the candidate will identify the materials, equipment and tiles used in the traditional methods of fixing ornamental patterns. Candidates should describe the preparation methods used for both tiles and backgrounds prior to the fixing of tiles using sand and cement or lime mortar. Setting out procedures should be described with accurate drawings produced. Traditional fixing methods should be fully described

Higher National Unit specification: statement of standards (cont)

Unit title: Wall and Floor Tiling: Ornamental and Traditional Tiling

Outcome 2

Fix wall tiles to an ornamental design using sand and cement mortar

Knowledge and/or Skills

- ◆ Workshop drawing and specification interpretation
- ◆ Preparation of background and tiles
- ◆ Setting out
- ◆ Fixing of tiles using sand and cement mortar
- ◆ Grouting of tiles
- ◆ Surface finishing
- ◆ Current Health and Safety legislation
- ◆ Sustainability considerations

Evidence Requirements

Candidates will need to provide evidence to demonstrate their Knowledge and/or Skills by showing that they can accurately interpret a given workshop drawing and specification and prepare a background and tiles prior to fixing. The drawing must be of a period geometric design. Candidates are also required to provide evidence that they can fix tiles to specification using sand and cement mortar and grout tiles leaving a bloom free finish. Lime mortar may be used if applicable. Candidates must work in a safe and organised manner. The minimum area must be 1m².

Summary of standards (working towards industrial tolerances)

- ◆ interpret specification and workshop drawings correctly
- ◆ prepare background correctly
- ◆ prepare tiles correctly
- ◆ set out correctly
- ◆ fix tiles using sand and cement mortar $\pm 4\text{mm}$
- ◆ grouting — grout hole and bloom free finish
- ◆ comply with health and safety throughout all activities
- ◆ sustainability considered

An assessor observation checklist must be completed to ensure that the candidate has met the required specification and tolerances and this observation checklist must be retained as evidence. Evidence must be gathered under controlled, supervised conditions with candidates working individually to carry out all activities.

Assessment Guidelines

Though the assessment of this Outcome could be assessed individually, this Unit affords the opportunity for centres to take a holistic approach in assessing this Unit by creating a combined project of the requirements of Outcomes 2, 3 and 4. Candidates should be provided with specifications for the practical task and assessment should be carried out in a suitable workshop environment.

Higher National Unit specification: statement of standards (cont)

Unit title: Wall and Floor Tiling: Ornamental and Traditional Tiling

Outcome 3

Fix floor tiles to an ornamental design using sand and cement mortar

Knowledge and/or Skills

- ◆ Workshop drawing and specification interpretation
- ◆ Preparation of surface area and tiles
- ◆ Setting out
- ◆ Fixing tiles using sand and cement mortar
- ◆ Tamping down
- ◆ Grouting of tiles
- ◆ Surface finishing
- ◆ Current safety legislation
- ◆ Sustainability considerations

Evidence Requirements

Candidates will need to provide evidence to demonstrate their Knowledge and/or Skills by showing that they can accurately interpret a workshop drawing and specification, prepare a surface area prior to fixing. The drawing must be of a period geometric design. Candidates are also required to provide evidence that they can fix tiles to specification using cement mortar and grout tiles leaving a bloom free finish. Candidates can use lime mortar if applicable. Candidates must work in a safe and organised manner. The minimum area must be 1m².

Summary of standards (working towards industrial tolerances)

- ◆ interpret specification and workshop drawing correctly
- ◆ prepare surface area correctly
- ◆ set out correctly
- ◆ fix tiles using cement mortar $\pm 4\text{mm}$
- ◆ tamping of tiles — $\pm 4\text{mm}$
- ◆ grouting — grout hole and bloom free finish
- ◆ comply with health and safety throughout all activities
- ◆ sustainability considered

An assessor observation checklist must be completed to ensure that the candidate has met the required specification and tolerances and this observation checklist must be retained as evidence. Evidence must be gathered under controlled, supervised conditions with candidates working individually to carry out all activities.

Assessment Guidelines

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Higher National Unit specification: statement of standards (cont)

Unit title: Wall and Floor Tiling: Ornamental and Traditional Tiling

Outcome 4

Refurbish and reinstate ornamental and traditional wall and floor tiles

Knowledge and/or Skills

- ◆ Damage identification
- ◆ Protection of surrounding areas
- ◆ Appropriate extraction and preservation of wall and floor tiles
- ◆ Tile preparation
- ◆ Fixing material preparation
- ◆ Re-instatement of wall and floor tiles
- ◆ Grouting of tiles
- ◆ Surface finishing
- ◆ Current Health and Safety legislation
- ◆ Sustainability considerations

Evidence Requirements

Candidates will need to provide evidence to demonstrate their Knowledge and/or Skills by showing that they can accurately identify damaged wall and floor tiles and protect and prepare an area prior to re-instatement of tiles. Candidates are also required to provide evidence that they can prepare, preserve and re-instate tiles using the traditional methods. Tiles must be grouted leaving a bloom free finish. Candidates must work in a safe and organised manner. The extraction and re-instatement must be from a geometric period pattern with a minimum area of 0.25m² from both wall and floor tiles. Tiles should be re-instated with an appropriate mortar.

Summary of standards (working towards industrial tolerances)

- ◆ damaged tiles identified correctly
- ◆ area protected adequately
- ◆ tiles extracted and preserved
- ◆ tiles prepared correctly
- ◆ mortar prepared and matched to existing correctly
- ◆ tiles fixed correctly — flush and in line with existing tiles
- ◆ grouting — bloom free finish
- ◆ comply with health and safety throughout all activities
- ◆ sustainability considered

An assessor observation checklist must be completed to ensure that the candidate has met the required specification and tolerances and this observation checklist must be retained as evidence. Evidence must be gathered under controlled, supervised conditions with candidates working individually to carry out all activities

Higher National Unit specification: statement of standards (cont)

Unit title: Wall and Floor Tiling: Ornamental and Traditional Tiling

Assessment Guidelines

Though the assessment of this Outcome could be assessed individually, this Unit affords the opportunity for centres to take a holistic approach in assessing this Unit by creating a combined project of the requirements of Outcomes 2, 3 and 4. Candidates should be provided with specifications for the practical task and assessment should be carried out in a suitable workshop environment.

Administrative Information

Unit code:	F8MV 34
Unit title:	Wall and Floor Tiling: Ornamental and Traditional Tiling
Superclass category:	TG
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History of changes:

Version	Description of change	Date

Source: SQA

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Higher National Unit specification: support notes

Unit title: Wall and Floor Tiling: Ornamental and Traditional Tiling

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 developed as a mandatory Unit in the Professional Development Award (PDA) in Wall and Floor Tiling at SCQF level 7.

This Unit is intended to equip candidates with all necessary underpinning knowledge and skills related to fixing tiles to ornamental designs using sand and cement mortar and re-instating wall and floor tiles using traditional tiles and materials. Candidates can also be introduced to the traditional method of using of lime mortar as a fixing material for wall and floor tiles.

In Outcome 1, the candidate could be re-introduced to the underpinning knowledge and understanding of the traditional fixing methods for ornamental wall and floor tiling patterns. Preparation of tiles and fixing materials should be discussed, with candidates encouraged to research this using literature and the internet. Historic Scotland publications are one source of literature suitable for acquiring this knowledge evidence.

In Outcome 2 and 3 candidates previous knowledge of hand fixing tiles using sand and cement mortar should be developed to help candidates complete more intricate and demanding tile patterns.

In Outcome 4 candidates should be guided on the importance of protecting areas whilst undertaking re-instatement work. The context of this Outcome has an emphasis on the re-instatement of tiles using traditional methods and materials. It is important that candidates are encouraged to preserve and recycle materials.

Health and Safety and Sustainability are integral and key to the construction industry therefore throughout the 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. Emphasis should be placed on appropriate areas such as waste management and effective sourcing and use of materials.

Where feasible, centres should also incorporate modern methods of construction used in industry. Candidates should be made aware of current industry practice and emerging practice or technology which may become conventional in the future.

Higher National Unit specification: support notes (cont)

Unit title: Wall and Floor Tiling: Ornamental and Traditional Tiling

Guidance on the delivery and assessment of this Unit

As part of the Professional Development Award (PDA) in Wall and Floor Tiling at SCQF level 7, this Unit may be delivered in a sequence suitable to individual candidates and centres. When completing this Unit as part of the PDA it is recommended that, where possible, opportunity is taken to integrate aspects of Constructional Technical Communication Skills (DW4D 34).

This Unit could be delivered through a series of lectures, formative theory and practical examples which will involve the candidate carrying out the activities outlined in the Outcomes. Candidates should be encouraged to access and use visual evidence from the internet, textbooks and notes which illustrate the fixing and re-instatement methods of Ornamental and Traditional Wall and Floor Tiling.

Outcome 1 could be delivered with candidates working individually to generate the relevant evidence. This Outcome provides candidates with the opportunity to use the internet to access the information required to satisfy the Outcome requirement. Candidates could also be encouraged to word process responses for summative assessments and could use digital images as part of their evidence.

In Outcomes 2 and 3 candidates will be required to work individually to generate practical evidence in the fixing of tiles to an ornamental design using sand and cement mortar. Guidance and instruction in the correct fixing techniques and procedures should be given by the lecturer. A recommendation would be for candidates to develop their skills progressively starting on less intricate patterns leading onto more complex period geometric designs.

In Outcome 4 candidates will be required to work individually in the refurbishment and re-instatement of wall and floor tiles. Guidance and instruction should be given to candidates on the importance of protecting the surrounding area and extracting tiles in an appropriate way using the correct tools. The Lecturer should place emphasis on re-instatements with comparative materials.

If feasible, site visits or information about modern and potential future methods of construction would be beneficial. This approach could be used to enhance the candidate's experience and understanding of how their skills and knowledge might be applied in real industry situations.

Centres may use the instruments of assessment which they consider to be the most appropriate but are advised to use the Wall and Floor Tiling Training and Assessment (TAP) at SCQF level 7 which has been developed centrally by SQA. Any other instruments of assessment used must be comparable to the TAP 7.

Higher National Unit specification: support notes (cont)

Unit title: Wall and Floor Tiling: Ornamental and Traditional Tiling

Opportunities for developing Core Skills

There are opportunities to develop the Core Skill of *Working with Others* at SCQF level 4, particularly during practical assessments where candidates are working alongside each other in a workshop environment. Candidates can agree responsibilities and provide support and information to each other during the practical activities.

There are opportunities to develop the Core Skill of *Communication* at SCQF level 4 throughout this Unit by the candidates describing the materials and the planning and preparation which is required in traditional wall and floor tiling. Candidates will also develop their *Communication* skills by describing setting out and traditional tile fixing procedures. As candidates complete practical tasks, they should be expected to communicate with others using the correct terminology, tone and style suited to the workplace.

There are opportunities to develop the Core Skill of *Information and Communication Technology* at SCQF level 4 in Outcome 1 where the candidates will be encouraged to access information through internet research particularly in the researching of traditional ornamental patterns and fixing procedures. They could also be encouraged to word process responses for formative assessments and could use digital images as part of their evidence.

There are opportunities to develop the Core Skill of *Numeracy* at SCQF level 4 through the interpretation of information from working drawings and the practical use of calculation and measuring scales.

There are opportunities to develop the Core Skill of *Problem Solving* at SCQF level 5. Candidates will need to take account of a range of factors in order to work efficiently and safely, such as the choice of tools, appropriate materials, safety issues, safety equipment and sustainability. Individual discussions with assessors and the use of role play will enhance the evaluation of efficient working practices.

Higher National Unit specification: support notes (cont)

Unit title: Wall and Floor Tiling: Ornamental and Traditional Tiling

Open learning

Although this Unit could be delivered in part by distance learning, it would require considerable planning by the centre to ensure the sufficiency and authenticity of candidate evidence. Arrangements would have to be made to ensure that:

- ◆ candidates have access to a suitable workshop with suitable equipment and tools
- ◆ health and safety considerations are fully taken into account
- ◆ the practical activities are supervised by a responsible person and clearly recorded (using an assessment checklist for the assessor)
- ◆ the assessor is, at some point, able to question the candidate on that performance
- ◆ assessment is carried out under the stated conditions

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

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

General information for candidates

Unit title: Wall and Floor Tiling: Ornamental and Traditional Tiling

This Unit has been designed to further your career in the construction industry by developing your competencies and improve your knowledge of ornamental and traditional Wall and Floor Tiling. It has been written as part of the Professional Development Award (PDA) in Wall and Floor Tiling at SCQF level 7, and is intended for experienced crafts persons working in the construction industry as Wall and Floor Tilers.

The Unit will help develop your underpinning knowledge and skills related to the traditional methods of fixing wall and floor tiles with sand and cement mortar. You may also be introduced to fixing tiles with sand and lime mortar. The Unit will also help develop your skills in the refurbishment and re-instatement of ornamental tilework and develop your awareness of the different patterns used in traditional Wall and Floor Tiling.

You will be assessed on your knowledge of the tools and equipment and the preparation methods required for fixing tiles using traditional methods. You will also be assessed on the setting out methods used in the traditional fixing of wall and floor tiles to ornamental and traditional tile patterns using sand and cement mortar.

You will also be assessed practically in a workshop environment on preparing, setting out, fixing and grouting wall and floor tiles to given traditional ornamental patterns. You will be given all specifications required prior to undertaking the practical assessments.

Though this Unit requires you to be assessed on your ability to tile both walls and floors and to refurbish and re-instate tiles using traditional methods, the centre where you are undertaking this Unit may assess all of these requirements individually or together as a combined project

There are opportunities within the Unit to develop your Core Skills *Problem Solving* at SCQF level 5 and *Working with Others* at SCQF level 4, *Communication* at SCQF level 4, *Information and Communication Technology* and *Numeracy* at SCQF level 4 in this Unit, although there is no automatic certification of Core Skills or Core Skills components.

If you successfully complete this Unit and the full PDA at SCQF level 7, you will not only have advanced your craft skills, but will automatically receive some credit if you progress on to the HNC Construction.