

National Unit Specification: general information

UNIT Sheet Lead Weathering: An Introduction (Intermediate 2)

CODE F1LA 11

SUMMARY

This Unit is suitable for candidates who have had some experience in plumbing services, eg completion of the Plumbing Services: An Introduction. This Unit will provide the candidate with valuable experience of working within a workshop environment and using tools applicable to the sheet weathering element of the plumbing industry. Candidates who complete this Unit can feel confident progressing further in the Construction Craft Industry.

OUTCOMES

- 1 Identify tools used for sheet lead weathering.
- 2 Form a 90° internal corner and drip edge using sheet lead.
- 3 Form a 90° internal corner and a 45° internal corner using sheet lead.
- 4 Form 45° front apron flashing using sheet lead.

RECOMMENDED ENTRY

Whilst entry is at the discretion of the centre, it would be beneficial for the candidate to have attained the following of equivalent:

- ◆ Plumbing Services: An Introduction (Intermediate 1)

CREDIT VALUE

1 credit at Intermediate 2 (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: TH

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National Unit Specification: general information (cont)

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CORE SKILLS

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

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 the Scottish Qualifications Authority.

OUTCOME 1

Identify tools used for sheet lead weathering.

Performance Criteria

- (a) Identify sheet lead weathering tools correctly.
- (b) Describe the use of sheet lead weathering tools correctly.

OUTCOME 2

Form a 90° internal corner and drip edge using sheet lead.

Performance Criteria

- (a) Mark out and cut assessment sheet lead according to given drawings.
- (b) The exercise is free from excessive thickening.
- (c) The exercise is free from excessive wrinkles and kinks.
- (d) The dimensions are within given specifications.
- (e) Health and safety legislation is adhered to at all times.

OUTCOME 3

Form a 90° internal corner and a 45° internal corner using sheet lead.

Performance Criteria

- (a) Mark out and cut assessment sheet lead according to given drawings.
- (b) The model is free from excessive thickening.
- (c) The model is free from excessive wrinkles and kinks.
- (d) The dimensions are within given specifications.
- (e) Health and safety legislation is adhered to at all times.

National Unit Specification: statement of standards (cont)

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OUTCOME 4

Form a 45° front apron flashing according to given drawings.

Performance Criteria

- (a) Mark out and cut assessment sheet lead according to given drawings
- (b) The model is free from excessive thickening
- (c) The model is free from excessive wrinkles and kinks
- (d) The dimensions are within given specifications.
- (e) Health and safety legislation is adhered to at all times.

EVIDENCE REQUIREMENTS

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

Evidence of the correct materials, selection of tools and good working practices while working with Sheet Lead is required to test underpinning knowledge and understanding and will be gained in an integrated assessment.

Written and/or oral evidence is required which demonstrates that the candidate has achieved Outcome 1 to the standard specified in the Outcome and Performance Criteria. The candidate will be required to recognise assorted tools used Sheet Lead Weathering. The evidence for this Outcome should be obtained under controlled, supervised conditions, closed-book and should last no more than 45 minutes.

Performance evidence supplemented with an assessor observation checklist/record should be used to show that the candidate has achieved Outcomes 2, 3 and 4 the standard specified in the Outcomes and Performance Criteria. Each candidate will be observed to show that they can mark out and cut materials to within +/- 15 mm of given dimensions for:

- ◆ one 90° internal corner and a 45° internal corner
- ◆ one 90° internal corner and a drip edge
- ◆ one 45° front apron flashing

Assessment of this Unit should be completed over a period of time and evidence should be gathered at appropriate intervals.

The Assessment Support Pack for this Unit provides sample assessment material. 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 has been developed as an optional Unit in the National Progression Award in Construction and can also be delivered as a freestanding Unit.

The content and context of this Unit is aimed at candidates who are interested in pursuing a career in the plumbing industry. Candidates will be required to gain an understanding of the correct terminology and materials for sheet lead weathering and will gain practical experience of forming sheet lead. It is imperative that there is firm guidance on the continued development of safe working practices at this stage of the award.

There should be an initial demonstration of all activities before the candidates commence with the practical work and it is recommended that candidates are given as much practise in the techniques prior to assessment.

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

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. Safety 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

GUIDANCE ON LEARNING AND TEACHING APPROACHES FOR THIS UNIT

The teaching approaches for this Unit will be predominately workshop based. The candidate should be given sufficient practical demonstrations and practice attempts before carrying out the assessments. The candidate should be encouraged to become familiar with the need for good personal hygiene and all relevant health and safety recommendations when working with sheet lead. Familiarity with all the tools applicable to the lead working element of the plumbing industry must also be encouraged. All centres are respectfully requested to provide clear and simplified diagrams and notes.

The approach will provide the candidate with the confidence required to continue with his/her pre-vocational training and development.

National Unit Specification: support notes (cont)

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OPPORTUNITIES FOR CORE SKILL DEVELOPMENT

The elements of the Core Skill of Problem Solving, such as planning and organising and critical thinking will be developed and enhanced as candidates undertake this Unit. Candidates will need to take account of a range of factors in order to work efficiently and safely, such as the choice of safe methods of working with sheet lead. Complying at all times with health and safety requirements will enable candidates to develop co-operative working skills, as they must be aware of the safety of others as well as themselves. Individual discussions with assessors will enhance the evaluation of efficient working practices.

There are opportunities to research information about Health and Safety legislation enabling candidates to develop the Core Skill of Information Technology.

Numeracy skills will be naturally enhanced as skills such as measuring, interpretation of information and dimensional scaling are required in the teaching and learning assessments for Outcomes 2, 3 and 4.

Although Communication skills are not formally assessed, candidates will have the opportunity to develop written and/or oral communication skills for the knowledge part of the teaching and learning assessment for Outcome 1. As candidates complete practical tasks, they should be expected to communicate with others using the correct terminology, tone and style suited to the workplace.

GUIDANCE ON APPROACHES TO ASSESSMENT FOR THIS UNIT

Centres may use the Instruments of Assessment which they consider to be most appropriate but are encouraged to use the Assessment Support Pack (ASP) developed centrally by SQA.

It is expected that candidates will be given as much practice as possible prior to being set the assessment tasks.

Careful consideration should be given to the specifications on the working drawings, with a maximum tolerance of +/- 15mm.

The candidate should feel confident through sufficient practice prior to assessment.

Outcome 1

The candidate's knowledge and understanding of plumbing terminology and tools will be assessed through a matching exercise covering all Performance Criteria in Outcome 1. This assessment should be conducted under controlled, supervised condition. Assessment should show that the candidate has achieved all Performance Criteria and reassessment of any area of this Outcome can be conducted through an oral question/answer session.

National Unit Specification: support notes (cont)

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Outcome 2, 3 and 4

An assessor observation checklist/record can be used to record evidence of the candidate's ability to correctly form sheet lead. The candidate will be provided with all of the tools, materials and equipment to complete the practical tasks as well as drawings and specifications required.

Candidates will also be assessed on their compliance of health and safety legislations in the Construction Industry including the correct use of PPE, safe working practices, manual handling methods and the correct and safe use of tools.

The ASP includes a bank of questions which may be used to form the assessment of Outcome 1 and assessor observation checklist/records for Outcomes 2, 3 and 4

CANDIDATES WITH DISABILITIES AND/OR ADDITIONAL SUPPORT NEEDS

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. Further advice can be found in the SQA document *Guidance on Assessment Arrangements for Candidates with Disabilities and/or Additional Support Needs* (www.sqa.org.uk).