



National Unit Specification: general information

UNIT Painting and Decorating: Drawing (SCQF level 6)

CODE F79T 12

SUMMARY

This Unit is suitable for candidates working towards a Modern Apprenticeship in Painting and Decorating and will develop the candidate's craft skills in drawing. This Unit is designed to provide candidates with the competences to read and understand building drawings and current codes of drawing practice before producing orthographic and isometric projections and pictorial views. The candidates will be able to transfer these skills to the workplace. It is also designed to develop the candidate's knowledge of geometry and allow them to construct geometric figures.

OUTCOMES

- 1 Produce geometric figures.
- 2 Produce orthographic projection in first angle.
- 3 Produce an isometric projection of an interior location.
- 4 Produce a one point perspective drawing of an interior location.

RECOMMENDED ENTRY

While entry is at the discretion of the centre, candidates undertaking the Professional Development Award in Painting and Decorating at SCQF level 6 must meet the requirements of the Modern Apprentices which include being employed in the relevant craft industry.

Administrative Information

Superclass: TD

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National Unit Specification: general information (cont)

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CREDIT VALUE

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

**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 or Core Skills components in this Unit. Opportunities for developing aspects of the following Core Skills are highlighted in support notes for this Unit.

- ◆ *Problem Solving* at SCQF level 4
- ◆ *Communication* at SCQF level 4
- ◆ *Numeracy* at SCQF level 4

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

Produce geometric figures.

Performance Criteria

- (a) Select appropriate drawing equipment.
- (b) Produce title panel and layout in accordance with current codes of practice.
- (c) Use compass and/or set square to produce a range of neat, clean and tidy geometric figures.
- (d) Select a suitable method to produce a neat, clean and tidy ellipse.

OUTCOME 2

Produce orthographic projection in first angle.

Performance Criteria

- (a) Select appropriate drawing equipment.
- (b) Produce title panel and layout in accordance with current codes of practice.
- (c) Produce a neat, clean and tidy orthographic projection to a suitable scale.

OUTCOME 3

Produce an isometric projection of an interior location.

Performance Criteria

- (a) Select appropriate drawing equipment.
- (b) Produce title panel and layout in accordance with current codes of practice.
- (c) Produce a neat, clean and tidy isometric projection of an interior location to a suitable scale.

OUTCOME 4

Produce a one point perspective drawing of an interior location.

Performance Criteria

- (a) Select appropriate drawing equipment.
- (b) Produce title panel and layout in accordance with current codes of practice.
- (c) Produce a neat, clean and tidy one point perspective of an interior location to a suitable scale.

National Unit Specification: statement of standards (cont)

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EVIDENCE REQUIREMENTS FOR THIS UNIT

These evidence requirements will be met by the completion of the Painting and Decorating Training and Assessment Programme (TAP).

Product and performance evidence is required to demonstrate that the candidate has achieved all Outcomes and Performance Criteria. The candidates will be required to construct all listed geometric figures (equilateral triangle, isosceles triangle, scalene triangle, right angled triangle, bisects lines and angles), produce orthographic projection, pictorial views and a one point perspective drawing to the standards required in the Performance Criteria. Assessment of these Outcomes will be evidenced through observation of work processes and assessment of the completed drawings. Candidates must meet the given standards and tolerances during the assessments. An assessor observation checklist must be used to record this evidence. Assessment should be conducted under controlled, supervised conditions.

Summary of standards (working towards industrial tolerances)	
Item	Measurement of standard
Select all drawing equipment to produce technical drafting	Tools and equipment selected correctly
Produce title panels and layouts	Incorporating current codes of practice
Produce geometric figures	— equilateral triangle — isosceles triangle — scalene triangle — right angled triangle — bisects lines and angles
Produce ellipse	Adopt suitable method to draw ellipse
Produce orthographic projection	Projection produced to suitable scale
Produce isometric projection	Projection produced to suitable scale
Produce one point perspective	Projection produced by plan projection or grid method to a suitable scale
Finished drawings neat, clean, tidy	

National Unit Specification: support notes

UNIT Painting and Decorating: Drawing (SCQF level 6)

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 CONTEXT AND CONTENT OF THIS UNIT

This Unit has been developed as a mandatory Unit in the Professional Development Award in Painting and Decorating at SCQF level 6.

The successful completion of this Unit will provide candidates with the required underpinning knowledge of geometric figures and their production. It will also give them an understanding of building drawings and perspective drawing. Allied to this knowledge and understanding the candidates will also develop the practical skills in order to produce the above listed graphics. Candidates should be given the opportunity to integrate and practice their drawing skills throughout the Units in the PDA.

The Unit should be offered to candidates from the construction and related or similarly structured industries, and the skills are transferable within different working environments. The Unit is primarily aimed at candidates whose normal place of work would be a site, workshop, or similar type of work environment.

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 the criteria of affecting sustainability, impact of not implementing sustainability on the environment and the legislation promoting sustainability.

GUIDANCE ON TEACHING AND LEARNING APPROACHES FOR THIS UNIT

The candidates should be given every opportunity to practice their drawing skills, through a planned curriculum in this subject area, in order that they can successfully achieve the standards specified in the technical drafting tasks. The emphasis should be on the production of neat clean accurate drawings.

Methods of producing one point perspective drawings should be included either from a floor plan, or by the grid method. The perspective drawings will be used to display interior situations to their most effective. The candidates should also be encouraged to work in groups and measure areas in interior locations, which they can then use to produce orthographic projections and pictorial views. This will further enhance their knowledge of building drawings and relevant codes of practice.

Opportunities should be taken throughout the delivery of this Unit to meet the requirements of the generic Units of the Training and Assessment Programme including:

- ◆ Conform to General Workplace Safety
- ◆ Confirm Work Activities and Resources for the Work
- ◆ Develop and Maintain Good Working Relationships
- ◆ Confirm the Occupational Method of Work
- ◆ Conform to Efficient Working Practices
- ◆ Move and Handle Resources

National Unit Specification: support notes (cont)

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OPPORTUNITIES FOR CORE SKILL DEVELOPMENT

The Core Skill of *Problem Solving* at SCQF level 4 could be developed 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 tools, appropriate materials, safety issues, safety equipment and sustainability. Individual discussions with assessors will enhance the evaluation of efficient working practices.

There could be opportunities for candidates to develop the Core Skill of *Communication* at SCQF level 4. Candidates will have the opportunity to develop communication skills by producing drawings.

Numeracy at SCQF level 4 could be developed as the candidates work through the completion of the drawings.

GUIDANCE ON APPROACHES TO ASSESSMENT FOR THIS UNIT

Detailed assessment material for this Unit will be found in section 6 of the Painting and Decorating Training and Assessment Programme (TAP). Centres may use the instruments of assessment which they consider to be most appropriate but are advised to use the TAP which has been developed centrally by SQA. Any other instruments of assessment used must be comparable to the TAP and have been through prior verification.

Evidence will be gathered for all Outcomes through the production of drawings and observation that the candidates have met the given standards and tolerances during the assessment. An assessor observation checklist can be used to record this evidence. Assessment should be conducted under controlled, supervised conditions.

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.