



National Unit Specification: general information

UNIT Painting and Decorating: Applying Water-borne Surface Coatings (SCQF level 6)

CODE F79M 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 applying water-borne surface coatings. This Unit is designed to provide candidates with competence in the use of tools and equipment, the protection of furniture and fittings within the workplace, the cleanliness and preparation of surfaces to which these types of coatings will be applied and the ability to apply these skills in the workplace.

OUTCOMES

- 1 Protect adjacent areas, furniture and fittings.
- 2 Prepare surfaces for the application of water-borne coatings.
- 3 Prepare and apply water-borne coatings.

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.

CREDIT VALUE

1.5 credits at SCQF level 6 (9 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.*

Administrative Information

Superclass: TG

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National Unit Specification: general information (cont)

UNIT Painting and Decorating: Applying Water-borne Surface Coatings
(SCQF level 6)

CORE SKILLS

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

Opportunities for developing aspects of the following Core Skills are highlighted in Support Notes of this Unit.

- ◆ *Problem Solving* at SCQF level 4
- ◆ *Working with Others* at SCQF level 4
- ◆ *ICT* at SCQF level 3
- ◆ *Numeracy* at SCQF level 4
- ◆ *Communication* at SCQF level 4

National Unit Specification: statement of standards

UNIT Painting and Decorating: Applying Water-borne Surface Coatings (SCQF level 6)

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

Protect adjacent areas, furniture and fittings.

Performance Criteria

- (a) Remove and store furniture and fittings with no damage.
- (b) Use protective coverings in line with recognised practice.
- (c) Use masking materials correctly.
- (d) Remove, clean and store coverings on completion of task.
- (e) Replace all moved items to their original locations without damage.
- (f) Comply with current health and safety legislation during all work methods and activities.

OUTCOME 2

Prepare surfaces for the application of water-borne coatings.

Performance Criteria

- (a) Remove all surface contamination by washing down.
- (b) Abrade surfaces thoroughly by wet and dry, processes.
- (c) Rectify surface defects using appropriate materials.
- (d) Comply with current health and safety legislation during all work methods and activities.

OUTCOME 3

Prepare and apply water-borne coatings.

Performance Criteria

- (a) Select appropriate coating for the given task.
- (b) Open containers, stir and correctly decant coatings.
- (c) Adjust viscosity, search/strain and test for suitability.
- (d) Select tools and equipment appropriate for the given task.
- (e) Apply coatings without visible defects.
- (f) Accurately cut-in using brushes and rollers.
- (g) Comply with current health and safety legislation during all work methods and activities.

National Unit Specification: statement of standards (cont)

UNIT Painting and Decorating: Applying Water-borne Surface Coatings
(SCQF level 6)

EVIDENCE REQUIREMENTS FOR THIS UNIT

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

Evidence is required to demonstrate that the candidate has achieved this Unit to the standards specified in all Outcomes and Performance Criteria.

Product and performance evidence is required to demonstrate that the candidate has achieved Outcomes 1, 2 and 3 to the standards specified in the Performance Criteria. Candidates will be required to make the work area ready for painting processes, prepare surfaces and substrates and apply a range of water-borne coatings using common surface contact tools and equipment. Assessment of these Outcomes will be evidenced through observation of work processes, and assessment at each stage of the progression of work as it is completed. Candidates must meet the given standards and tolerances during the practical assessments. An assessor observation checklist must be used to record this evidence, and assessment should be conducted under controlled, supervised conditions which must reflect conditions likely to be encountered in the workplace.

National Unit Specification: support notes

UNIT Painting and Decorating: Applying Water-borne Surface Coatings (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 60 hours.

GUIDANCE ON THE CONTENT AND CONTEXT FOR THIS UNIT

Candidates successfully completing this Unit will require underpinning knowledge and skills relating to the protection of surrounding/adjacent surfaces: the surface preparation to receive water-borne coatings; the selection and preparation of appropriate coating types; the tools and equipment required; and the application skills required to meet industry standards.

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.

The Unit deals specifically with the application of water-borne coatings, and will be complemented by other Units dealing with related coatings and work in Painting and Decorating. The delivery of this Unit could be integrated with: *Properties of Water-borne Coating; Applying Coatings to Cementitious, Timber and Metal Surfaces*. It should be delivered as part of a structured Training and Assessment Programme set out for Modern Apprentices undertaking painting and decorating as a career.

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 legislation and approved codes of practice. Sustainability should include reference to the criteria affecting sustainability, the impact of not implementing sustainability on the environment and the legislation promoting sustainability.

GUIDANCE ON LEARNING AND TEACHING APPROACHES FOR THIS UNIT

Outcome 1

Candidates should be given instruction on the manual/kinetic handling of heavy items (furniture), the safe removal, storage and replacement of fittings, and the necessary protection of items in the work area which are fixtures, as the work requires. The need to maintain the cleanliness of the coverings used to protect fixtures, and the methods in which they are employed, are of prime importance.

Outcome 2

Candidates should be made aware that washing down surfaces can be used either to restore them to a good condition, or as part of the preparation process for the application of coatings. The materials used for these purposes should be supported by underpinning knowledge.

National Unit Specification: support notes (cont)

UNIT Painting and Decorating: Applying Water-borne Surface Coatings (SCQF level 6)

The importance of the process of rectifying surfaces and substrates, and the materials used which are compatible with them and water-borne coating types should be impressed on candidates. Where availability of surfaces requiring this form of preparation is not readily available, centres should provide simulated areas on which candidates can develop their skills.

Dry abrading/sanding down substrates and surfaces should be demonstrated, with emphasis on suitability of abrasive types, and the associated hazards created by the production of airborne dust. Wet abrading, with the associated health benefits, should be encouraged where possible, but candidates must be given the awareness of the appropriateness of this method of preparation.

Outcome 3

Candidates should be made aware of the variety of water-borne coatings, and their types and functions within a coating system, which will allow them to select the most suitable system for the given task, and the most appropriate tools and equipment for application.

Practical demonstrations should introduce the candidates to the processes required to prepare water-borne coatings for use, and how to apply them to acceptable standards to suitably prepared surfaces. Cutting in skills should be emphasised, and candidates should be proficient in these before attempting the assessment.

Opportunities should be taken throughout 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

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 choice of tools and equipment, appropriate materials, workplace/personal health and safety issues, and sustainability. Individual interaction with assessors will enhance the evaluation of candidates' efficient working practices.

There are opportunities to develop the Core Skill of *Working with Others* at SCQF level 4 in all Outcomes, as practical assessment may be carried out whilst candidates are working in pairs as part of the learning approaches. Candidates can agree responsibilities, and provide support and information to each other during the assessments. On completion of assessment, they should be encouraged to consider how effective the support was which they provided for each other.

National Unit Specification: support notes (cont)

UNIT Painting and Decorating: Applying Water-borne Surface Coatings (SCQF level 6)

Opportunities also arise for candidates to develop the Core Skill of *Information and Communication Technology* at SCQF level 3 by researching current health and safety legislation relating to the areas of work particular to this Unit.

Numeracy at SCQF level 4 could be developed by the use of appropriate measuring scales and workshop areas to provide physical measurement, calculation of surface areas and requirements of material quantities.

There could be opportunities for candidates to develop the Core Skill of *Communication* at SCQF level 4. As candidates complete practical assessment, they should be expected to communicate with others using correct terminology suited to the workplace.

GUIDANCE ON APPROACHES TO ASSESSMENT FOR THIS UNIT

Detailed assessment material for this Unit will be found in section 3 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 Painting and Decorating 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.

Candidates should be given as much practise as possible in preparing and applying water-borne surface coatings prior to being set the assessment. Evidence will be gathered through observation of work processes and assessment of the completed workpieces to ensure that the candidates have met the given standards and tolerances during the practical assessment. An assessor observation checklist should be used to record this evidence.

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.