



National Unit Specification: general information

UNIT Setting out Secondary Dimensional Work Controls (SCQF level 5)

CODE F6LT 11

SUMMARY

This Unit provides an introduction to the key principles and techniques of measuring and marking out dimensional control requirements in the construction environment. It will develop the candidate's understanding and practical skills in setting out secondary dimensional work controls. On completion of this Unit, candidates will know how to accurately interpret work specifications, and apply this knowledge on-site in order to measure, align and set out different dimensional control requirements as part of a specified task. This will include knowing how to correctly use relevant equipment, whilst adhering to Health and Safety regulations and legislation at all times. This Unit is suitable for candidates working towards a Modern Apprenticeship in the Construction Operative and Specialist suite.

OUTCOMES

- 1 Establish secondary dimensional control requirements for the specified task.
- 2 Measure and set out secondary dimensional control requirements to specification.

RECOMMENDED ENTRY

While entry to this Unit is at the discretion of the centre, candidates undertaking a National Progression Award at SCQF level 5, as part of a Modern Apprenticeship, must meet the necessary criteria which includes being employed in the relevant industry.

CREDIT VALUE

0.5 credit at SCQF level 5 (3 SCQF credit points at 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: TE

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National Unit Specification: general information (cont)

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CORE SKILLS

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

This Unit provides opportunities for candidates to develop aspects of the following Core Skills:

- ◆ *Numeracy* (SCQF level 3)
- ◆ *Working with Others* (SCQF level 3)
- ◆ *Communication* (SCQF level 3)
- ◆ *Problem Solving* (SCQF level 3)

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

Establish secondary dimensional control requirements for the specified task.

Performance Criteria

- (a) Interpret accurately the drawings and/or work specification for the task.
- (b) Identify correct equipment required for the task.
- (c) Carry out pre-use safety and functional checks of all equipment.
- (d) Select appropriate personal protective equipment (PPE) for the specified task, in accordance with organisational requirements.

OUTCOME 2

Measure and set out secondary dimensional control requirements to specification.

Performance Criteria

- (a) Measure dimensional control requirements accurately.
- (b) Align and level dimensional control requirements correctly.
- (c) Mark out dimensional control requirements according to the specification.
- (d) Use equipment correctly and in accordance with manufacturer's guidelines.
- (e) Comply with all current workplace safety and legislative requirements.
- (f) Dispose of waste in accordance with legislative requirements.

National Unit Specification: statement of standards (cont)

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EVIDENCE REQUIREMENTS

Candidates are required to produce evidence to confirm that they have achieved all Outcomes and Performance Criteria outlined in this Unit.

Performance evidence is required to demonstrate the candidate has achieved the standard specified in the Outcomes and Performance Criteria for Outcomes 1 and 2. Performance evidence must be supplemented with an assessor observation/operational checklist and produced at an appropriate interval in training, under supervised conditions, once the candidate has developed the necessary skills and knowledge required to carry out the work.

Performance evidence should be demonstrated by candidates measuring and setting out all of the following in a designated work area:

- ◆ Lines
- ◆ Levels
- ◆ Depths
- ◆ Areas
- ◆ Heights
- ◆ Angles

As part of the assessment for this Unit, the candidate will also submit written product evidence such as a works checklist or completed risk assessment form. Oral evidence of knowledge and understanding may be demonstrated by the candidate during practical assignments set for Outcomes 1 and 2 and noted at the time by the observer.

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 length allocated to this Unit is at the discretion of the centre, the notional design length is 20 guided learning hours.

GUIDANCE ON THE CONTENT AND CONTEXT FOR THIS UNIT

The Outcomes and Performance Criteria for this Unit can be demonstrated by the candidate setting out all of the following:

- ◆ Lines
- ◆ Levels
- ◆ Depths
- ◆ Areas
- ◆ Heights
- ◆ Angles

The content and context of this Unit has been set at an introductory level so that the candidate can develop a basic knowledge and ability in setting out secondary dimensional control for a specified task within a construction environment.

Health and Safety are vital to working practices within the construction industry and therefore, emphasis will be placed wherever appropriate during the delivery of this Unit on the correct application of Health and Safety principles and processes, in accordance with current codes of practice and legislation.

GUIDANCE ON LEARNING AND TEACHING APPROACHES FOR THIS UNIT

These notes are for guidance purposes only, but are not to be considered as complete guidance to learning and teaching approaches.

Opportunities for integrated delivery of this Unit may be possible where candidates are taking the Unit in *Operating Powered Tools and Equipment*. Delivery may also be integrated with mandatory Units.

The introductory training for this Unit should take place in a separate training area independent of the productive work environment and using dedicated equipment and resources and cover underpinning and practical principles before any practical application of knowledge is carried out by candidates.

Delivery of this Unit should focus on developing knowledge and understanding of the key underpinning principles and procedures for measuring the dimensions of a specified work area - including lines, depths, areas, heights and angles — and confirming dimensions are level and aligned before marking out the requirements according to specification. Emphasis should be placed on the importance of candidates accurately understanding and interpreting the information provided within work specifications and drawings. This will also include ensuring that candidates can identify and select the appropriate equipment to use for the specified task.

National Unit Specification: support notes (cont)

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Deliverers should make sure that candidates know to adhere to relevant Health and Safety regulations and legislation relating both to working practices within the construction environment, as well as those specific to any practical task they are requested to carry out (such as emphasising the importance of selecting and using the correct PPE at all times).

E-learning approaches may be appropriate to help tailor delivery to suit the individual needs or learning styles of candidates. This might include, for example, encouraging learners to use electronic resources to conduct research into a specific knowledge area.

OPPORTUNITIES FOR CORE SKILL DEVELOPMENT

Candidates will be given the opportunity to develop the Core Skill of *Numeracy* (SCQF level 3) throughout this Unit, as they are required to accurately measure, calculate and mark out work area dimensions such as levels, depths, areas, heights and angles. The need to plan and organise the task, as well as think critically and interpret a workplace specification are all also key aspects of this Unit and the Core Skill of *Problem Solving* (SCQF level 3).

Core Skills of *Working with Others* (SCQF level 3) and *Communication* (SCQF level 3) are vital throughout this Unit, as candidates will need to be able to effectively communicate instructions to their colleagues using the correct terminology, whilst maintaining awareness and ensuring the safety of others as they comply with codes of practice and working regulations. Assessment processes may enable candidates the opportunity to develop their Written Communication skills.

National Unit Specification: support notes (cont)

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GUIDANCE ON APPROACHES TO ASSESSMENT FOR THIS UNIT

Centres may use the Instruments of Assessment they consider to be most appropriate, and the following notes are given as guidance only.

Opportunities for integrated assessment of this Unit may be possible where candidates are taking the Unit in *Operating Powered Tools and Equipment*. Assessment may also be integrated with mandatory Units.

Underpinning and practical knowledge of setting out secondary dimensional control should be assessed before any practical assignments are carried out by candidates. This will include assessment of a candidate's ability to carry out the correct calculations and select the correct equipment for a specified task. Assessment of practical performance should take place under supervised conditions and confirm a candidate's ability in marking out basic secondary dimensions of a designated work area, whilst adhering to Health and Safety regulations and legislation.

Outcomes 1 and 2 may be assessed by centres setting candidates a series of appropriate practical assignments carried out under supervised conditions and recorded in an assessor's observation/operational checklist. Practical assignments undertaken by a candidate will be assessed according to their ability to carry out the task safely, using appropriate machinery according to manufacturer's guidelines.

Adherence to appropriate working regulations and Health and Safety procedures will be observed during the practical exercise carried out by the candidate towards both Outcomes.

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