

**Scottish Group Award Specifications**

SGA in:	<b>Construction: Building and Architectural Technology</b>		
Level:	<b>Higher</b>	Code:	<b>G5A8 12</b>



## Summary of requirements

# SGA in Construction: Building and Architectural Technology at Higher

### National Courses and Units required\*

*3 mandatory National Courses (12 credits) at Higher:*  
Building and Architectural Technology  
Construction  
Quantity Surveying

*Details in specific section*

**plus**

*1 mandatory National Unit (1 credit):*  
Mathematics 1 (Int 2)

*Details in specific section*

**plus**

*7 credits at minimum of Intermediate 2*

*Details in specific section*

**Total 20 credits**

### Core skills required\*

*The above must include or cover:*  
5 core skills at Intermediate 2

*Details in specific section*

\*See Important Note on page 4.

# Rules for credit contribution

## Important Note\* Achievement above the minimum requirements

The specification shows the **minimum** requirements for this SGA. Where possible, centres may wish to encourage candidates to exceed this minimum. Candidates achieving above the minimum specification will have this achievement recorded on their Scottish Qualifications Certificate. For example the following can be achieved above the minimum requirement:

- Core Skills at levels above those specified
- more National Courses and Units at Higher instead of the credits at Intermediate 2
- National Course grades, eg grade A or B instead of grade C
- more than the required three National Courses, in which case each additional course completed counts as four credits

## Hierarchies

- courses and units can be substituted by those with the same title at a higher level, eg Mathematics 1 (Int 2) can be substituted by Mathematics 1 (H) (See Section C)

## Double counting

- courses and units with the same title at different levels cannot both contribute credits to the SGA, eg **either** Mathematics 1 (Int 2) **or** Mathematics 1 (H)
- same course achieved with different grades cannot both contribute credits to the SGA, eg **either** Higher Building and Architectural Technology at grade A **or** Higher Building and Architectural Technology at grade C

## National Course awards at Grade D

National Course awards at Grade D can contribute to the SGA in the following ways:

- in place of the specified mandatory or optional Higher Courses, a grade D at Advanced Higher in a Course of the same title can contribute 4 credits to the SGA

Note - The former compensatory course awards (fallbacks) can also contribute to the SGA:

- in place of the specified mandatory or optional Higher Courses, a compensatory award for a Course of the same title taken at Advanced Higher (ie awarded at Higher) can contribute 4 credits to the SGA.

## Specific section

A

This section specifies: mandatory courses, mandatory units, mandatory combinations of courses and/or units, mandatory core skill requirements and optional courses and units.

\*Mandatory unit of a course. †Optional unit of a course. All other units are free-standing National Units.  
[ ]Bracketed numbers indicate the former coding for these unrevised National Units.

Course/unit no	Course/unit title	Credits
<b>Three mandatory National Courses:</b>		
C021 12	Building and Architectural Technology (H)	4
C019 12	Construction (H)	4
C01P 12	Quantity Surveying (H)	4
<b>plus one mandatory National Unit:</b>		
D321 11	Mathematics 1 (Int 2)	1

**Total credits required: 13**

**plus any combination of courses, component units and free-standing units to gain seven credits**

(at minimum Int 2) from:

Course:

C01R 12	Structural Engineering (H)	4
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Component units of course

D22V 12	*Structural Design and Detailing (H)	1
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D22W 12	*Structural Drawing and Detailing (H)	1
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D925 12	*Structural Mechanics and Design 2 (H)	1
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Component unit of Building Services course:

D122 12	*Building Services Provision: Low Rise Buildings (H)	1
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Component units of Civil Engineering course:

D119 12	*Structural Mechanics and Design 1 (H)	1
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D117 12	*Civil Engineering Practice (H)	1
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Free-standing National Units:

D911 12	Building Estimating (H)	1
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D912 12	Building Technology: Sitework and Safety (H)	1
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D914 12	Civil Engineering Materials and Testing (H)	1
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D915 12	Civil Engineering Sitework (H)	1
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D985 12	Computer Aided Draughting (CAD) (H)	1
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E8NR 11	Construction and Commercial Practice (Int 2) [75443]	1
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E8M8 12	Construction Fundamentals 1 (H) [75013]	1
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E8M9 12	Environmental Design Factors (H) [75020]	0.5
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D924 12	Site Surveying 2 (H)	1
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D36H 11	Work Experience (Int 2)	1
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Course/unit no	Course/unit title	Credits
Free-standing National Units continued:		
D01B 11	Communication (Int 2)	1
D01C 11	Numeracy (Int 2)	1
D01D 11	Information Technology (Int 2)	1
D01E 11	Problem Solving (Int 2)	1
D01F 11	Working with Others (Int 2)	1

Specific SVQs can contribute credits to this SGA. (See Section D)

**Total credits required: 7**

*20 credits*

### **\*\* Core skills requirement**

Communication at Intermediate 2  
 Numeracy at Intermediate 2  
 Information Technology at Intermediate 2  
 Problem Solving at Intermediate 2  
 Working with Others at Intermediate 2

\*\* See Section B for core skills details.

## Rules for credit contribution

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- Core Skills at levels above those specified
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### National Course awards at Grade D

National Course awards at Grade D can contribute to the SGA in the following ways:

- in place of the specified mandatory or optional Higher Courses, a grade D at Advanced Higher in a Course of the same title can contribute 4 credits to the SGA

Note - The former compensatory course awards (fallbacks) can also contribute to the SGA:

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## Core skills

B

To achieve this SGA, all candidates **must achieve** the following core skills:

Core skill	Level
Communication	Intermediate 2
Numeracy	Intermediate 2
Information Technology	Intermediate 2
Problem Solving	Intermediate 2
Working with Others	Intermediate 2

One or more core skills units in this SGA may be automatically certificated through mandatory courses and units. Where this is the case, the corresponding core skill unit in this section cannot be counted towards the SGA.

Candidates can achieve core skills:

- through Standard Grades or other units which give automatic certification of core skills, eg a candidate who has completed Standard Grade English at Credit Level is given automatic certification of Communication at Intermediate 2
- by selecting from the group award units and courses which give automatic certification of core skills, eg the optional unit Work Experience (Int 2) gives automatic certification of Problem Solving and Working with Others at Intermediate 2
- by doing dedicated core skills units – these units can contribute credits to the SGA and should be achieved through integration with appropriate subject specialist units. However, if the candidate wishes, the unit credits need not contribute to the SGA.

Candidates' current level of achievement in core skills is shown on the Scottish Qualifications Certificate in the form of a profile. This shows achievement against each of the core skills *components*. Where a core skill has more than one component, the candidate needs to achieve each component at the level specified for the SGA. For example, if an SGA requires Problem Solving at Intermediate 2, a candidate whose profile shows Critical Thinking and Planning and Organising at Intermediate 2 and Reviewing and Evaluating at Intermediate 1 would not meet the requirement and would have to improve in Reviewing and Evaluating.

Details of all courses which give automatic certification of core skills is published in the *Catalogue of Core Skills in National Qualifications* (SQA, 2001/2002).



## Hierarchical sequences

C

The SQA numbering system for qualifications consists of a 4 + 2 reference code.

The qualifications in a hierarchical sequence have the same title and are available at more than one level. They are identified by their reference code having the same first four digits, eg D36H in the example below. The last two digits are unique to each level of qualification, eg 12 equates to Higher, 11 equates to Intermediate 2.

### Units

The following is an example of a hierarchical sequence of units:

D36H 10	Work Experience (Int 1)
D36H 11	Work Experience (Int 2)
D36H 12	Work Experience (H)

Where units which are part of hierarchical sequences are specified, candidates who achieve a unit at a higher level than the one specified can use the upper level unit to count as credit towards the group award. For example, Work Experience (H) can be counted instead of Work Experience (Int 2).

Candidates can only use one of these units to count as credit towards the group award.

In the case of unrevised National Certificate Modules, ie units which retain their original number, there are hierarchies where the title is the same and the number is different. Details of these exceptions will be published in a separate document. The pattern for these hierarchies is the same as that previously established for GSVQs.

There are also some hierarchies where the titles and numbers of the units at different levels are different. In this specification, if there are two units at different levels with heavily overlapping content, only one of these units should be used to count as credit towards the group award. Details of these exceptions will be published in a separate document.

### Courses

The following is an example of a hierarchical sequence of courses:

C021 12	Building and Architectural Technology (H)
C021 13	Building and Architectural Technology (AH)

In the SGA specification, where courses which belong to hierarchical sequences are specified, candidates who achieve a course at a higher level than the one specified can use the upper level course to count as credit towards the group award. For example, Building and Architectural Technology (AH) can be counted instead of Building and Architectural Technology (H).

Candidates can only use one of these courses to count as credit towards the group award - a maximum of 4 credits.



## SVQs

D

Specific Scottish Vocational Qualifications (SVQs) at the appropriate level can each contribute up to eight credits to an SGA.

SVQs at Level 3 contribute credits at Higher.

SVQs at Level 2 contribute credits at Intermediate 2.

In this particular SGA the following SVQs can each contribute a maximum of seven credits.

Code no		
003 Constructing		
G3SP 23	Building Maintenance and Estates Services	3
G63N 23	Construction Contracting (Buying)	3
G63R 23	Construction Contracting (Estimating)	3
G63P 23	Construction Contracting (Planning)	3
G63M 23	Construction Contracting (Surveying)	3
*	Construction Site Supervision (Building and Civil Engineering )	3
*	Construction Site Supervision (Highways Maintenance)	3
G3R7 23	Site Inspection (Building/Civil)	3

\* Code to be allocated, please contact SQA for details

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