

-SQA- SCOTTISH QUALIFICATIONS AUTHORITY

**Hanover House
24 Douglas Street
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NATIONAL CERTIFICATE MODULE DESCRIPTOR

-Module Number-	4120591	-Session-	1991-92
-Superclass-	TK		

-Title-	GENERAL BUILDING OPERATIVES: SCAFFOLDING SAFETY
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-DESCRIPTION-

Purpose	This module is designed to develop the knowledge and skills required to ensure that scaffolding, tower units or temporary working/access platforms are in a finished state and safe for use.
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It is aimed at those following a career as a General Building Operative or in similar positions in the Building and Allied Industries.

Preferred Entry Level	4120551	General Building Operatives: Lifting and Handling Skills.
	4120511	General Building Operatives: Construction Materials.

Outcomes	The student should: <ol style="list-style-type: none">1. ensure that an independent or dependent tied scaffold is in a finished state and safe for use;2. ensure that a proprietary tower unit (not exceeding 5m high) is in a finished state and safe for use;3. ensure that a temporary working (access) platform is in a finished state and safe for use.
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Assessment Procedures	Acceptable performance in the module will be satisfactory achievement of all the Performance Criteria specified for each Outcome.
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The following abbreviations are used below:

PC Performance Criteria
IA Instrument of Assessment

Note: The Outcomes and PCs are mandatory and cannot be altered. The IA may be altered by arrangement with SQA. (Where a range of performance is indicated, this should be regarded as an extension of the PCs and is therefore mandatory.)

OUTCOME 1 ENSURE THAT AN INDEPENDENT OR DEPENDENT TIED SCAFFOLD IS IN A FINISHED STATE AND SAFE FOR USE

- PCs (a) The checking of the scaffold is correct in terms of:
- (i) the structure being plumb and square;
 - (ii) the guard rails being fitted at a height between 0.91m and 1.15m above the working platform;
 - (iii) the toe boards being not less than 150mm deep and securely fitted;
 - (iv) the working platform being in place at the relevant lift and of the appropriate width (minimum 880mm);
 - (v) the ladder access being constructed to the appropriate standard;
 - (vi) the ladder being lashed securely with 1.075m minimum from working platform to top of ladder;
 - (vii) the rakers or ties being secure;
 - (viii) the putlogs (if used) being in to the perpend a minimum of 75mm;
 - (ix) the braces being securely fixed;
 - (x) the sole plates being supported in an adequate manner. (As a guide, if timber supports are used, the dimensions 220mm x 220mm and 36mm thick should be adhered to).

IA Practical Exercise

The student will be set a practical exercise to test the knowledge required to ensure that an independent or dependent tied scaffold is in a finished state and safe for use.

The student will be presented with either:

- (i) photographs or similar representations of an independent or a dependent tied scaffold, or
- (ii) an actual independent or dependent tied scaffold which has been erected by others.

The student will be required to inspect and identify those areas that could give rise to defect or danger and must include the following points recorded on a checklist.

1. Plumbness and squareness of structure
2. Guard rails and toe boards
3. Working platforms
4. Ladder access
5. Ladder
6. Rakers, ties or putlogs
7. Braces
8. Sole plate supports.

Satisfactory achievement of the Outcome will be based on the student attaining all the Performance Criteria.

OUTCOME 2

ENSURE THAT A PROPRIETARY TOWER UNIT (NOT EXCEEDING 5m HIGH) IS IN A FINISHED STATE AND SAFE FOR USE

PCs

- (a) The checking of the tower unit is correct in terms of:
 - (i) the assembly having been carried out strictly to the manufacturer's instructions;
 - (ii) the unit having been made plumb and square immediately prior to use by means of and within scope of the jacking system;
 - (iii) the wheels having been locked prior to use;
 - (iv) the unit (if mobile) being moved only by pushing at bottom whilst there are no personnel, materials, tools or equipment on the unit.
- (b) The working practices followed by the student are safe and in accordance with current regulations.

IA Practical Exercise

The student will be set a practical exercise to test the knowledge required to identify that a proprietary tower unit (not exceeding 5m high) is in a finished state and safe for use.

The student will be presented with either photographic or similar representations of a proprietary tower unit, or an actual proprietary tower unit which has been erected by others. The student will be required to inspect and identify those areas that could give rise to defect or danger. The exercise must include the following points recorded on a checklist.

1. Plumbness and squareness of structure
2. Guard rails and toe boards
3. Working platforms
4. Ladder
5. Braces
6. Wheel locks

For this test the student will also be presented with the manufacturer's instruction manual and the checklist.

Satisfactory achievement of the Outcome will be based on the student attaining all the Performance Criteria.

OUTCOME 3

ENSURE THAT A TEMPORARY WORKING (ACCESS) PLATFORM IS IN A FINISHED STATE AND SAFE FOR USE

PCs

- (a) The checking of the temporary working or access platform is correct in terms of it being:
 - (i) constructed from materials that are suitable and of sufficient dimensions to carry the load to be imposed;
 - (ii) of a sufficient size to allow the operation to be carried out safely;
 - (iii) suitably positioned to allow the operation to be carried out safely.
- (b) The access to the structure is correct in terms of being limited to authorised personnel only.

IA Practical Exercise

The student will be set a practical exercise to test the knowledge required to identify that a temporary working or access platform is in a finished state and safe for use.

The exercise will consist of a student being presented with:

- (i) photographic or similar representations of a temporary working or access platform,
or

- (ii) an actual temporary working or access platform that has been erected by others.

The student will be required to inspect and identify those areas that could give rise to defect or danger. The exercise must include the following points recorded on a checklist.

1. Plumbness and squareness of structure
2. Working platform
3. Access platform
4. Access to platform
5. Guard rails and toe boards.

Satisfactory achievement of the Outcome will be based on the student attaining all the Performance Criteria.

**The following sections of the descriptor are offered as guidance.
They are not mandatory.**

CONTENT/CONTEXT

Corresponding to Learning Outcomes 1-3:

1. The range of scaffolding should include independent or dependent tied scaffolding.
 2. Proprietary towers should include static and mobile, and temporary working or access platforms, including simple hop-ups.
 3. Scaffolding not to exceed 5m in height.
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SUGGESTED LEARNING AND TEACHING APPROACHES

Learning Outcomes 1-3 could be introduced through informal discussion concerning types of scaffolding.

Instruction could be given in a classroom situation using visual examples of scaffolding or on a site looking at actual scaffolds that have been erected by others.

Practical activities may be simulated or include identification of faults on actual scaffolds.

The safety elements involved in the use of scaffolding should be constantly stressed.

Manufacturers' literature (where applicable) should be made available and discussed with the students prior to the relevant task being undertaken.

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