

-SQA-SCOTTISH QUALIFICATIONS AUTHORITY

HIGHER NATIONAL UNIT SPECIFICATION

GENERAL INFORMATION

-Unit number-	D7YJ 04
-Unit title-	VIDEO RECORDING AND ALARMS
-Superclass category-	QH
-Date of publication- (month and year)	JANUARY 2002
-Originating centre for unit-	SQA

-DESCRIPTION-

GENERAL COMPETENCE FOR UNIT: Developing knowledge and understanding of Video Recording and Alarms in the Security Industry CCTV Sector.

OUTCOMES:

1. describe the features of a video recording systems;
2. describe multiplexed systems;
3. describe alarm techniques used in a CCTV system.

CREDIT VALUE: 1 HN Credit.

ACCESS STATEMENT: Access to this unit is at the discretion of the centre. However, it would be beneficial if the candidate has completed Introduction to the Security Industry CCTV unit and prior knowledge of Electrical/Electronic Principles and Components.

Additional copies of this unit can be obtained from:

The Committee and Administration Unit, SQA, Hanover House, 24 Douglas Street, Glasgow G2 7NQ, (Tel: 0141-242 2168).

At the time of publication the cost is £2.50 per unit (minimum order £5.00).

HIGHER NATIONAL UNIT SPECIFICATION**STATEMENT OF STANDARDS**

Unit number: D7YJ 04

Unit title: VIDEO RECORDING AND ALARMS

Acceptable performance in this Unit will be the satisfactory achievement of the standards set out in this part of the specification. All sections of the statement of standards are mandatory and cannot be altered without reference to SQA.

OUTCOME**1. DESCRIBE THE FEATURES OF A VIDEO RECORDING SYSTEM****PERFORMANCE CRITERIA**

- (a) Describe the features of video recorders, listed in the range statement.
- (b) Explain the uses of a time lapse recording.
- (c) Describe the process of creating a video recorded information management system.
- (d) Explain Video Recorder maintenance techniques.

RANGE STATEMENT

Time lapse VHS. SHVS HI8. Digital, VCR Control, remote control.

Tape formatting video audio control track.

Recorder mechanics.

Head drum assemblies. A/CTL head. Tape guides back tension. Types of tape lacing. Tape transport. Cassette lift mechanism. Simple maintenance procedures.

EVIDENCE REQUIREMENTS

Written and/or oral evidence of the candidate's ability to describe or explain all performance criteria in the range.

OUTCOME**2. DESCRIBE MULTIPLEXED SYSTEMS****PERFORMANCE CRITERIA**

- (a) Describe how to install a multiplex switcher.
- (b) Describe the programming function of a multiplex unit.
- (c) Describe the operation of a multiplex unit.

RANGE STATEMENT

Time date, camera no/position, picture format, number of frames, alarm functions, position of termination switches.

EVIDENCE REQUIREMENTS

Written and/or oral evidence of the candidate's ability to satisfy all performance criteria and cover the range.

OUTCOME**3. DESCRIBE ALARM TECHNIQUES USED IN A CCTV SYSTEM****PERFORMANCE CRITERIA**

- (a) Describe means of generating an alarm as a result of human presence.
- (b) Identify the recorder alarm inputs and outputs with respect to the use of voltage free contacts and open collector outputs.
- (c) Describe the operation of video motion detection.

RANGE STATEMENT

Intruder sensors cameras with video motion detection. Remote control.

EVIDENCE REQUIREMENTS

Written and/or oral evidence of the candidate's ability to demonstrate and satisfy all performance criteria and cover the range.

MERIT STATEMENT: To gain a pass in this unit, a candidate must meet the standards set out in the outcomes, performance criteria, range statements and evidence requirements.

To achieve a merit in this unit, a candidate must demonstrate a superior or more sophisticated level of performance. In this unit this might be shown in the following ways:

- (i) By utilising a CCTV system demonstrate the ability to co-ordinate the evidence received.

ASSESSMENT

In order to achieve this unit, candidates are required to present sufficient evidence that they have met all the performance criteria for each outcome within the range specified. Details of these requirements are given for each outcome. The assessment instruments used should follow the general guidance offered by the

Scottish Qualifications Authority (SQA) assessment model and an integrative approach to assessment is encouraged. (See references at the end of support notes).

Accurate records should be made of the assessment instruments used showing how evidence is generated for each outcome and giving marking schemes and/or checklists, etc. Records of candidates' achievements should be kept. These records will be available for external verification.

SPECIAL NEEDS

Proposals to modify outcomes, range statements or agreed assessment arrangements should be discussed in the first place with the external verifier.

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HIGHER NATIONAL UNIT SPECIFICATION**SUPPORT NOTES**

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SUPPORT NOTES: This part of the unit specification is offered as guidance. None of the sections of the support notes is mandatory.

NOTIONAL DESIGN LENGTH: SQA allocates a notional design length to a unit on the basis of time estimated for achievement of the stated standards by a candidate whose starting point is as described in the access statement. The notional design length for this unit is 40 hours. The use of notional design length for programme design and timetabling is advisory only.

REFERENCES

1. Guide to unit writing, SQA, 1993 (Code: A018).
2. Guide to assessment, SQA, 1993 (Code: B005).
3. Guide to certification, SQA, 1996 (Code: F025).
4. Notes for unit writers, SQA, 1995 (Code: A041).

For details of other SQA publications, please contact staff in the Sales and Despatch section (Tel: 0141-242 2168) who can supply you with a copy of the publication list (Code: X037).

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