



**Arrangements for:**  
**Professional Development Award  
(PDA) in Security Systems  
at SCQF level 6**

**Group Award Code: G8YF 46**

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## **Acknowledgement**

SQA acknowledges the valuable contribution that Scotland's colleges have made to the development of this qualification.



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# 1 Introduction

This is the Arrangements Document for the new Group Award PDA Security Systems (SCQF level 6) which was validated in February 2008. This document includes: background information on the development of the Group Award, its aims, guidance on access, details of the Group Award structure, and guidance on delivery.

The award is designed to provide candidates with knowledge and understanding of a range of security systems (Intruder Alarms, Fire Alarms, Access Control Systems, CCTV Systems), to ensure they are able to work effectively across a number of specialisms. This is reflected within the SVQ Providing Security, Emergency and Alarm Systems level 3 which also covers the above specialisms.

The qualification is designed to meet employers' needs by allowing candidates to demonstrate their underpinning knowledge of a range of security systems. The focus of the award is on a range of security systems: Fire Alarms, Intruder Detection Alarms, Closed Circuit Television Systems and Access Control Systems Thus it meets employers' needs by ensuring that candidates are able to work across a range of specialisms.

# 2 Rationale for the development of the Group Award

This new PDA Security Systems has been developed as an industry-specific award designed to provide a nationally recognised and certificated qualification which meets the needs of the industry in Scotland.

This sector-specific award has been developed in response to a need identified by employers and training providers in Scotland and focuses on workforce development by maximising knowledge and practical skills. It recognises the increasing demands on staff in response to changes in legislation, health and safety requirements and specific practice developments. As a result of these developments, the installation and maintenance of security systems has become increasingly complicated, requiring attention to the maintenance of safe and effective working environments and procedures, customer care and effective record-keeping, as well as the practical skills to safely and correctly install a range of security systems

The PDA Security Systems (SCQF level 6) has been designed to provide knowledge and skills which underpin the SVQs in Providing Emergency and Alarm Systems level 2 and 3, and also to meet the Knowledge requirements of the proposed Modern Apprenticeship in Security Systems in Scotland.

The PDA provides candidates with the opportunity to develop their knowledge, understanding and practical skills in the design, installation and maintenance across a range of security systems.

It provides an opportunity for candidates to use the award in conjunction with the level 3 SVQ in Providing Security, Emergency and Alarm Systems to gain a Modern Apprenticeship.

It should allow candidates to improve on their professional practice and/or to demonstrate continuing professional development

## **3 Aims of the Group Award**

### **3.1 General aims of the Group Award**

The general aim of this Award is to provide effective training to meet the current and emerging needs of the security systems sector. The award aims to give candidates the knowledge and understanding necessary to install and maintain a range of security systems.

This award develops occupational skills and enhances candidates' future career prospects. It also aims to enable candidates to gain credit within the Scottish Credit and Qualifications Framework (SCQF) which will assist them in accessing further qualifications.

Through participation in this PDA, candidates will work through practical and applied professional development activities directly relevant to their chosen field. The overarching aim is to develop both the personal and professional capacity and capability of candidates.

### **3.2 Specific aims of the Group Award**

The specific aims are to:

- ◆ provide underpinning knowledge and understanding for SVQ Providing Security, Emergency and Alarm Systems level 2 and 3
- ◆ formalise training on a Scotland-wide basis
- ◆ provide a formal nationally certificated qualification
- ◆ ensure co-ordination of training pathways
- ◆ provide a working understanding of health and safety legislation and requirements
- ◆ provide an introduction to the Security Systems Sector
- ◆ ensure that changes in technology are reflected in training

### **3.3 Target groups**

The PDA Security Systems is aimed at those working within the Security Systems industry who wish to demonstrate their understanding and practical skills or who wish to develop these skills.

The qualification is also aimed at individuals new to the industry who wish to progress to an engineer role within the industry. It is also designed to provide the additional requirements of the proposed Modern Apprenticeship in Security Systems, and as such will be undertaken by apprentices employed by a range of security companies.

The qualification has been developed to take account of the knowledge requirements of the level 2 and 3 SVQs in Providing Security, Emergency and Alarm Systems.

The level of the award, SCQF level 6, meets the requirements of employers and candidates and is commensurate with the level 2 and 3 SVQs

### **3.4 Employment opportunities**

On completion of the PDA candidates should be well-placed to gain a post as a Security Systems Engineer in a security company, or to take on a similar role with a Construction company.

## **4 Access to Group Award**

Presenting centres will need to ensure that each prospective candidate has sufficient academic ability and the appropriate personal qualities to succeed. Centres may wish to make use of a pre-entry assessment to establish the candidates' ability to successfully complete the award.

Access to this award is at the discretion of the delivering centre. However, it would be beneficial if candidates had appropriate communication skills. This could be demonstrated by Core Skills attainment at SCQF level 5. Also, given the calculations and use of formulas in a number of Units, it would be beneficial for candidates to have numeracy skills, again this could be demonstrated by Core Skills attainment at SCQF level 5 or an equivalent qualification in Mathematics or Physics.

If candidates are undertaking this award in conjunction with the level 3 Providing Security, Emergency and Alarm Systems SVQ as part of a Modern Apprenticeship programme, they must be in full time employment within the Security Systems industry.

## 5 Group Award structure

The PDA Security Systems is comprised of ten Units, all of which are mandatory, and has an SCQF credit value of 11. All Units are at level 6 and the Group Award has 66 SCQF credit points.

### 5.1 Framework

In order to achieve the Group Award candidates must complete all ten Units.

Unit title	Code	SCQF credit points	SCQF level	SQA credit value
Security Systems Industry: an Introduction	F3NV 12	6	6	1
Security Systems: Principles	F3NW 12	12	6	2
Security Systems :Installation Practices	F3NY 12	6	6	1
Security Systems: Signalling	F3P4 12	6	6	1
Intruder Alarm Principles	F3NX 12	6	6	1
Intruder Alarm Systems: Installation and Maintenance	F3P3 12	6	6	1
Fire Alarm Systems: Installation and Maintenance	F3P1 12	6	6	1
Access Control Systems: Installation and Maintenance	F3P0 12	6	6	1
CCTV Systems: Installation and Maintenance	F3P2 12	6	6	1
Security Systems: Health and Safety	F3P5 12	6	6	1

### 5.2 Mapping of specific aims to Units

Unit No	Unit Name	Aim						
		1	2	3	4	5	6	7
F3NV 12	Security Systems Industry: An Introduction	✓	✓	✓	✓		✓	
F3NW 12	Security Systems Principles	✓	✓	✓	✓		✓	
F3NY 12	Security Systems Installation Practices	✓	✓	✓	✓			✓
F3P4 12	Security Systems: Signalling	✓	✓	✓	✓			✓
F3NX 12	Intruder Alarm Principles	✓	✓	✓	✓		✓	
F3P3 12	Intruder Alarm Systems: Installation and Maintenance	✓	✓	✓	✓			✓



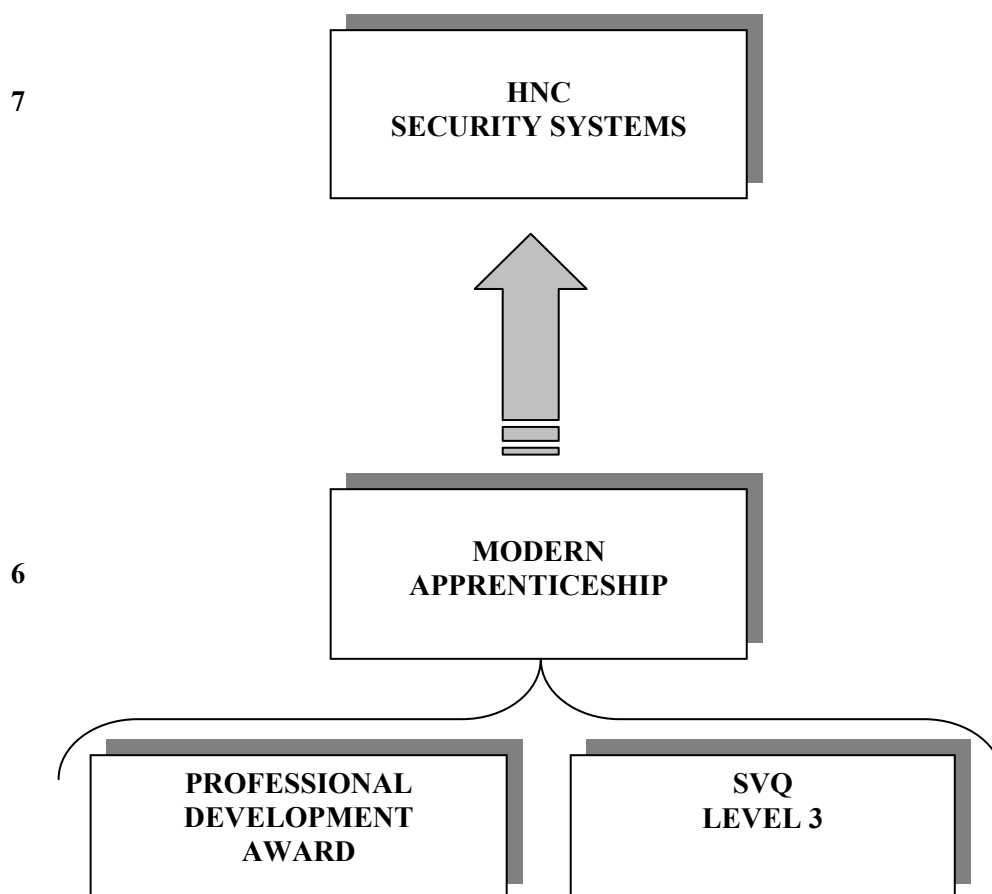
Unit No	Unit Name	Aim						
		1	2	3	4	5	6	7
F3P1 12	Fire Alarm Systems: Installation and Maintenance	✓	✓	✓	✓			✓
F3P0 12	Access Control Systems: Installation and Maintenance	✓	✓	✓	✓			✓
F3P2 12	CCTV Systems: Installation and Maintenance	✓	✓	✓	✓			✓
F3P5 12	Security Systems: Health and Safety	✓	✓	✓	✓	✓		

### 5.3 Articulation, professional recognition and credit transfer

There may be opportunities for candidates to progress from this award to the Higher National Certificate (HNC) in Security Systems ( SCQF level 7).

Many candidates will also undertake this award as part of a Modern Apprenticeship programme in conjunction with the level 3 SVQ in Providing Security, Emergency and Alarm Systems.

#### SCQF LEVEL



## 6 Approaches to delivery and assessment

The PDA will normally be delivered in full as part of a Modern Apprenticeship programme, the Modern Apprenticeship will consist of the PDA and the level 3 SVQ Providing Security, Emergency and Alarm Systems. Modern Apprenticeship candidates will be in full-time employment. The Modern Apprenticeship programme is likely to be delivered on a day release basis over the course of three years.

The Units that make up the award are free-standing Units and may be delivered and assessed as stand-alone Units. They may be used as such for the purposes of Continuing Professional Development or for up-skilling existing Security Systems Engineers in new technologies and procedures.

While there is no prescribed sequence of Unit delivery and assessment, it is recommended that the Units Security Systems Industry: An Introduction and Security Systems Principles are delivered first, as they provide background information and underpinning knowledge for the award.

Centres should take a flexible approach to delivering this qualification, using a mixture of classroom based learning and practical workshops.

## 7 General information for centres

### 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](http://www.sqa.org.uk/assessmentarrangements).

### Internal and external verification

All instruments of assessment used within this/these Group Award(s) should be internally verified, using the appropriate policy within the centre and the guidelines set by SQA.

External verification will be carried out by SQA to ensure that internal assessment is within the national guidelines for these qualifications.

Further information on internal and external verification can be found in *SQA's Guide to Assessment and Quality Assurance for Colleges of Further Education* ([www.sqa.org.uk](http://www.sqa.org.uk)).

## 8 General information for candidates

The PDA Security Systems (at SCQF level 6) is relevant to you if you are currently working, or preparing to work as a security systems engineer. You may also undertake this award as part of a Modern Apprenticeship in conjunction with the level 3 SVQ in Providing Security, Emergency and Alarm Systems.

The PDA is a practice-based qualification offering you opportunities to develop knowledge and skills in a range of security systems, including Fire Alarms, Intruder Detection Alarms, Closed Circuit Television Systems and Access Control Systems. It meets employers' needs by giving candidates the knowledge and skills to work across a range of specialisms.

There are ten Units in the PDA. Candidates must achieve all ten Units to gain the award.

The Units are:

- ◆ *Security Systems Industry: an Introduction*
- ◆ *Security Systems: Principles*
- ◆ *Security Systems: Installation Practices*
- ◆ *Security Systems: Signalling*
- ◆ *Intruder Alarm Principles*
- ◆ *Intruder Alarm Systems: Installation and Maintenance*
- ◆ *Fire Alarm Systems: Installation and Maintenance*
- ◆ *Access Control Systems: Installation and Maintenance*
- ◆ *CCTV Systems: Installation and Maintenance*
- ◆ *Security Systems: Health and Safety*

You will be assessed in these Units through a mixture of reports, short answer questions and practical assignments.

## 9 Glossary of terms

**SCQF:** This stands for the Scottish Credit and Qualification Framework, which is a new way of speaking about qualifications and how they inter-relate. We use SCQF terminology throughout this guide to refer to credits and levels. For further information on the SCQF visit the SCQF website at [www.scqf.org.uk](http://www.scqf.org.uk)

**SCQF credit points:** One HN credit is equivalent to 8 SCQF credit points. This applies to all HN Units, irrespective of their level.

**SCQF levels:** The SCQF covers 12 levels of learning. HN Units will normally be at levels 6–9. Graded Units will be at level 7 and 8.

**Subject Unit:** Subject Units contain vocational/subject content and are designed to test a specific set of knowledge and skills.

**Graded Unit:** Graded Units assess candidates' ability to integrate what they have learned while working towards the Units of the Group Award. Their purpose is to add value to the Group Award, making it more than the sum of its parts, and to encourage candidates to retain and adapt their skills and knowledge.

**Dedicated Unit to cover Core Skills:** This is a non-subject Unit that is written to cover one or more particular Core Skills.

**Embedded Core Skills:** This is where the development of a Core Skill is incorporated into the Unit and where the Unit assessment also covers the requirements of Core Skill assessment at a particular level.

**Signposted Core Skills:** This refers to the opportunities to develop a particular Core Skill at a specified level that lie outwith automatic certification.

**Qualification Design Team:** The QDT works in conjunction with a Qualification Manager/Development Manager to steer the development of the HNC/HND from its inception/revision through to validation. The group is made up of key stakeholders representing the interests of centres, employers, universities and other relevant organisations.

**Consortium-devised HNCs and HNDs** are those developments or revisions undertaken by a group of centres in partnership with SQA.

**Specialist single centre and specialist collaborative devised HNCs and HNDs** are those developments or revisions led by a single centre or small group of centres who provide knowledge and skills in a specialist area. Like consortium-devised HNCs and HNDs, these developments or revisions will also be supported by SQA.

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## 10 Appendices

Appendix 1: PDA Security Systems: Opportunities to develop Core Skills by SCQF level.

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PDA Security Systems: Opportunities to develop Core Skills by SCQF level	Communication		Numeracy	ICT	Problem Solving			WWO				
	Oral	Written (Reading)	Written (Writing)	Using Graphical Information	Using Numbers	Accessing Info	Providing / Creating Information	Critical Thinking	Planning and Organising	Reviewing and Evaluating	Working Co-operatively with Others	Reviewing Co-operative Contribution
<b>Security Systems Industry: An Introduction (F3NV12)</b>												
1 Explain the key features of the security industry in the UK.	N/A	5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
2 Explain the types of companies that operate within the security systems sector.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
3 Describe the roles of response organisations, inspectorate bodies and trade associations, with reference to the security systems industry.	N/A	N/A	5	N/A	N/A	4	N/A	N/A	N/A	N/A	N/A	N/A
4 Explain the purpose and function of each of the key stages in a typical security systems installation.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

	Communication		Numeracy		ICT	Problem Solving			WWO			
	Oral	Written (Reading)	Written (Writing)	Using Graphical Information	Using Numbers	Accessing Info	Providing / Creating Information	Critical Thinking	Planning and Organising	Reviewing and Evaluating	Working Co-operatively with Others	Reviewing Co-operative Contribution
<b>Security Systems Principles (F3NW12)</b>												
1 Explain electrical engineering fundamentals and use of laws and formulae to determine the value of electrical quantities.	N/A	N/A	N/A	N/A	6	N/A	N/A	N/A	N/A	N/A	N/A	N/A
2 Explain the principles relating to capacitance in electrical circuits.	N/A	N/A	N/A	N/A	6	N/A	N/A	N/A	N/A	N/A	N/A	N/A
3 Explain the principles and formulas relating to the calculations of battery capacity required for standby times of security systems.	N/A	N/A	N/A	N/A	6	N/A	N/A	N/A	N/A	N/A	N/A	N/A
4 Demonstrate the use of test equipment in relation to the security industry.	N/A	N/A	N/A	N/A	6	N/A	N/A	N/A	N/A	N/A	N/A	N/A
5 Identify the electrical supply requirements of electrically powered devices.	N/A	N/A	N/A	N/A	6	N/A	N/A	N/A	N/A	N/A	N/A	N/A
6 Explain the principles of digital circuits.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Communication	Numeracy	ICT	Problem Solving	WWO							
Oral	Written (Reading)	Written (Writing)	Using Graphical Information	Using Numbers	Accessing Info	Providing / Creating Information	Critical Thinking	Planning and Organising	Reviewing and Evaluating	Working Co-operatively with Others	Reviewing Co-operative Contribution

Intruder Alarm Principles (F3NN/A12)												
1 Explain the current standard and industry codes of practice relating to intruder alarm systems.	N/A	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
2 Describe the types of detection circuits used with intruder alarm systems.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
3 Explain the types and features of detectors currently used within the security systems industry.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
4 Explain the types and functions of intruder alarm control panels.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
5 Explain the basic purpose, input and output functions and warning devices of intruder alarm control panels.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

	Communication			Numeracy		ICT		Problem Solving			WWO	
	Oral	Written (Reading)	Written (Writing)	Using Graphical Information	Using Numbers	Accessing Info	Providing / Creating Information	Critical Thinking	Planning and Organising	Reviewing and Evaluating	Working Co-operatively with Others	Reviewing Co-operative Contribution
<b>Security Systems Installation Practices (F3NY12)</b>												
1 Describe the requirements of the IEE Wiring Regulations in respect of the security industry.	N/A	N/A	N/A	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
2 Describe and demonstrate the methods of containment used on installations.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
3 Explain the application and safe use of plant.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
4 Explain installation techniques used in the installation process.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
5 Install security systems equipment under supervision.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	5	5	N/A	N/A	N/A



	Communication		Numeracy		ICT		Problem Solving			WWO		
	Oral	Written (Reading)	Written (Writing)	Using Graphical Information	Using Numbers	Accessing Info	Providing / Creating Information	Critical Thinking	Planning and Organising	Reviewing and Evaluating	Working Co-operatively with Others	Reviewing Co-operative Contribution
<b>Access Control Systems, Installation and Maintenance (F3P012)</b>												
1 Explain the current standard and industry codes of practice relating to Access Control Systems as defined by Inspectorate Bodies and Trade Associations.	N/A	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
2 Describe the types of systems, functions, circuits and methods of connection used in Access Control systems.	N/A	N/A	N/A	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
3 Describe the basic operation of locking mechanisms, release mechanisms and devices and emergency circuits.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
4 Explain the requirements and process for commissioning an Access Control system.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
5 Describe the requirements and suitable equipment for corrective and preventative maintenance procedures.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	5	N/A	N/A	N/A	N/A

Communication	Numeracy	ICT	Problem Solving	WWO
Oral	Written (Reading)	Written (Writing)	Using Graphical Information	Using Numbers
		Accessing Info	Providing / Creating Information	
			Critical Thinking	
			Planning and Organising	
			Reviewing and Evaluating	
			Working Co-operatively with Others	
			Reviewing Co-operative Contribution	

Fire Alarm Systems, Installation and Maintenance (F3P112)												
1 Explain the current standard and industry codes of practice relating to fire alarm systems.	N/A	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
2 Describe the types of circuits and detectors used in conventional and addressable fire alarm systems.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
3 Describe the requirements for the sighting of detection devices and sounders.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
4 Describe the basic functions of conventional and addressable fire alarm control panels.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
5 Describe the requirements and process for commissioning a fire alarm system and for corrective and preventative maintenance procedures.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	5	5	N/A	N/A	N/A

Communication	Numeracy	ICT	Problem Solving	WWO
Oral	Written (Reading)	Written (Writing)	Using Graphical Information	Using Numbers
		Accessing Info	Providing / Creating Information	Critical Thinking
			Planning and Organising	Reviewing and Evaluating
				Working Co-operatively with Others
				Reviewing Co-operative Contribution

CCTV Systems, Installation and Maintenance (F3P212)												
1 Explain the current standard and industry codes of practice relating to CCTV Systems as defined by Inspectorate Bodies and Trade Associations.	N/A	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
2 Describe the types of systems and circuits used in CCTV systems.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
3 Describe the basic operation of cameras lenses and monitors.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	5	N/A	N/A	N/A
4 Describe the basic functions of control and recording equipment.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	5	N/A	N/A	N/A
5 Explain the requirements and process for commissioning a CCTV system.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
6 Explain the requirements with regard to corrective and preventative maintenance procedures.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	5	N/A	N/A	N/A	N/A

	Communication			Numeracy		ICT	Problem Solving			WWO		
	Oral	Written (Reading)	Written (Writing)	Using Graphical Information	Using Numbers	Accessing Info	Providing / Creating Information	Critical Thinking	Planning and Organising	Reviewing and Evaluating	Working Co-operatively with Others	Reviewing Co-operative Contribution
<b>Intruder Alarm Systems, Installation and Maintenance (F3P312)</b>												
1 Describe the influence of change in building use, structural changes and environmental changes to detection devices.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
2 Describe the method of programming intruder alarm control equipment to meet current standards and codes of practice.	N/A	N/A	N/A	N/A	N/A	N/A	6	N/A	N/A	N/A	N/A	N/A
3 Explain the requirements and process for commissioning an intruder alarm system (signalled and non-signalled).	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
4 Explain the requirements with regard to corrective and preventative maintenance procedures.	N/A	N/A	N/A	5	N/A	N/A	N/A	5	N/A	N/A	N/A	N/A

Communication	Numeracy	ICT	Problem Solving	WWO
Oral	Written (Reading)	Written (Writing)	Using Graphical Information	Using Numbers
		Accessing Info	Providing / Creating Information	Critical Thinking
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Security Systems Signalling (F3P412)												
1 Describe the functions of an Alarm Receiving Centre (ARC).	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
2 Explain the requirements and connection and testing of signalling equipment.	N/A	N/A	N/A	N/A	N/A	N/A	6	N/A	5	N/A	N/A	N/A
3 Describe the basic operation of CCTV transmission to and from remote sites.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
4 Describe the use, connection and operation of PC based software within the security industry.	N/A	N/A	N/A	N/A	N/A	N/A	6	N/A	5	N/A	N/A	N/A
5 Describe the requirements for the networking of security systems.	N/A	N/A	N/A	N/A	N/A	N/A	6	N/A	N/A	N/A	N/A	N/A

	Communication		Numeracy		ICT	Problem Solving			WWO			
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<b>Security Installation: Health and Safety Practices (F3P512)</b>												
1 Explain the responsibilities of employers and employees with regard to relevant health and safety at work regulations.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
2 Explain general safe working practices required for the security installation industry.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
3 Describe the correct procedures to be followed in dealing with emergencies in a range of emergency situations.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A