



**Arrangements for:  
HNC Poultry Production  
Group Award Code: G949 15**

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## **Acknowledgement**

SQA acknowledges the valuable contribution that Scotland's colleges have made to the development of Higher National qualifications.



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# 1 Introduction

This is the Arrangements Document for the revised HNC Poultry Production which was validated in October 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 HNC Poultry Production is designed as a poultry-specific vocational award that will equip candidates with the knowledge, understanding and skills to secure employment in the poultry industry.

The revised HNC Poultry Production (G94915) replaces the predecessor Group Award HNC Poultry Production (G7FH 15).

# 2 Rationale for the revision of the Group Award

The Higher National awards were last revalidated in 2003 and this resulted in the following provision:

- ◆ Poultry Production HNC (G7FH 15)
- ◆ Poultry Production and Management HND (G7FK 16)
- ◆ Poultry Production and Science HND (G7FJ 16)

Recruitment to the predecessor Group Awards has been problematic over several years, despite a demand for trained personnel by the industry.

The decision was therefore taken to develop a more poultry-specific HNC for future provision. The HNDs were unsustainable and an HNC award, where 9 of the 12 credits are poultry focussed, provides a good foundation for employment in the poultry industry.

A further advantage of the poultry-specific HNC is its flexibility. The Group Award could be studied part-time or full-time and individual Units or groups of Units could be studied on an *ad hoc* basis — either by industry employees for Continuing Professional Development (CPD) or by individuals with a general interest in poultry production. A future possibility could be to develop a SQA Professional Development Award (PDA) aligned to National Occupational Standards in the poultry industry. There may also be the opportunity to develop Units in a distance/flexible format.

Because of the strong poultry focus of this HNC it is not designed as a stepping stone to further study but as a principally vocational award, leading to employment in an industry where there is a definite need for trained personnel. Within some institutions it may be possible for a candidate to progress to year two of a degree course, eg Agriculture, but this would require some transition arrangements depending on the background of the individual candidate.

## **Consultation with industry/employers**

Approximately 20 named contacts within poultry companies, covering all sectors of the industry, were sent a questionnaire together with a covering letter outlining the proposal to change the poultry provision to HNC only and giving additional information on the requirements for the structure and content of this Group Award. Although the return rate was limited (33%) the responses did cover a good cross-section of the industry and the major companies replied. In addition, strong links with the poultry industry through research facilities and a range of short training courses, provides the opportunity for informal consultation on an ongoing basis.

Feedback on the proposal was generally very positive with all respondents indicating that they envisaged employment opportunities and career progression routes for graduates from the Poultry Production HNC. Both the title and the aims of the Group Award were thought to be appropriate and the framework provided the desired knowledge and understanding with a suitable balance of subject areas. It was generally felt that the Graded Unit should be a project and also that the development of Core Skills through a certificated IT Unit with the development of other Core Skills within Units was the correct approach. LANTRA's Sector Skills Agreement for Agricultural Livestock, published in January 2007, stated that 'to enable the workforce to harness technological advances there needs to be a good grasp of basic skills'. Numeracy and literacy were highlighted as the main skills issues, closely followed by technical, environmental management and planning and organisational skills.

## **Consultation with former candidates**

Again the feedback was positive, with respondents indicating that the strong poultry focus of the new HNC would provide a good foundation for employment in the industry. For the Graded Unit, the preference was for a project as it was felt that this fitted with the highly practical nature of the Group Award.

Additional comments from one respondent related to CV preparation and job applications, plus the benefits of work experience in the poultry industry when seeking final employment. These comments were noted, and whilst preparing job applications is not covered in a specific Unit, candidates may be encouraged to use an e-portfolio (eg *Pebblepad*) for personal development planning.

Taking account of the candidate consultation, the Group Award is designed to provide practical skills in rearing birds and industrial visits should be included to complement course delivery.

## **Consultation with current candidates**

The proposed Group Award was also discussed with current HNC candidates. This provided an opportunity to explain the reasons for a review of provision and the proposed Group Award structure. All felt that the new structure was highly relevant to a Group Award in Poultry Production. It would hopefully aid recruitment and be beneficial to future candidates in providing a strong poultry focus in preparation for employment. They did not express any major concerns about the lack of progression to HND as they were all intending to seek employment at the end of their HNC — although they did realise that the opportunity for progression to degree may be possible.

## Summary of consultations and market research

The main conclusions from this consultation process were as follows:

- ◆ Future provision in poultry production at Higher National level was desirable
- ◆ Although this provision was to be at HNC level, the content of the Group Award would be more poultry-specific and thus compensate for the withdrawal of HND
- ◆ The proposed course structure was appropriate for the need of employers
- ◆ The proposed course structure should improve the attractiveness of the Group Award to potential candidates
- ◆ The development of Core Skills within the structure was appropriate
- ◆ The Graded Unit would be best assessed by a project

## 3 Aims of the Group Award

### 3.1 General aims of the Group Award

- 1 To develop candidates who have an understanding not only of appropriate production techniques and technologies, but a general knowledge of the scientific and business principles which underpin the industry and of the environmental context in which the sector operates.
- 2 To provide a candidate-centred learning environment that will stimulate candidates to reach their full intellectual potential and develop production management skills, independence of thought and an enquiring mind.
- 3 To contribute to the high and sustained demand by employers in the poultry sector of the food industry for personnel with appropriate knowledge and skills.
- 4 To assist in the transfer of relevant knowledge and skills from SAC's research and development programme to the food and land-based sectors.

### 3.2 Specific aims of the Group Award

- 6 To provide candidates with a firm foundation in the global poultry production industry and detailed understanding of current production systems and technologies.
- 7 To develop relevant scientific understanding.
- 8 To develop an understanding of poultry welfare and behaviour.
- 9 To develop Core Skills in *Communication, Problem Solving, Information Technology, Numeracy* and *Working with Others*.
- 10 To prepare candidates for employment in the poultry sector and for further vocational training in the industry.

### 3.3 Target groups

This Group Award will be suitable for a wide range of candidates including:

- ◆ School leavers
- ◆ Returners to education
- ◆ Candidates studying courses within the Scottish Wider Access Programme (SWAP), eg Animal Studies, or other relevant NC Courses
- ◆ Candidates in employment who wish to enhance their career prospects
- ◆ People changing direction/seeking a change in career
- ◆ Part time candidates wishing to broaden skills and knowledge

### 3.4 Employment opportunities

The poultry industry forms a significant part of the UK food industry and demand for trained personnel with a good background in the poultry sector is high. On successful completion of the Poultry Production HNC, employment opportunities exist in:

- ◆ Production Units
- ◆ Hatchery Units
- ◆ Poultry Processing
- ◆ Feed Manufacture
- ◆ Inspection Services
- ◆ Technical Support
- ◆ Quality Assurance

## 4 Access to the Group Award

As with all SQA qualifications, access to the Group Award will be at the discretion of the centre. The primary criterion to be satisfied by an applicant seeking entry will be that he or she has a realistic chance of succeeding and benefiting from taking the programme, thus the following recommendations are for guidance only.

### Formal qualifications

Suitable formal qualifications for admission to the HNC Poultry Production are as follows:

- ◆ Five Standard Grades (or equivalent) at SCQF level 4 to include evidence of Numeracy and Communication Skills at SCQF level 4;
- ◆ Two Higher grades (SCQF Level 6) or one A Level (SCQF level 7).

Alternatively, passes in appropriate SQA National Units will be recognised as qualifications for entry to the programme, as will appropriate Scottish Wider Access Programme (SWAP) qualifications.

Accreditation of prior experiential learning or alternative formal qualifications will be considered on an individual candidate basis.

### Work experience

Mature candidates with suitable relevant work-based learning and experience in lieu of normal entry requirements may be accepted provided that the centre is satisfied that the candidate is able to cope with the course and is likely to benefit from undertaking the Group Award.



## Recommended Core Skills Entry level

It would be beneficial if candidates possessed the following Core Skills profile on entry:

<b>Core Skill</b>	<b>SCQF level</b>
Communication	4
Information Technology	4
Numeracy	4
Problem Solving	4
Working with Others	4

## Applications to individual or clusters of Units

It is envisaged that candidates may wish to study individual Units or clusters of Units for personal interest and development. In addition, Units may be selected from the programme for Continuing Professional Development (CPD) as required by individual candidates based in employment. Access statements in these cases may differ from that of the Group Award. When admitting candidates into individual Units, admissions staff should consider the ability of the candidate to undertake the Unit and, in particular, the need to ascertain how a pre-requisite skill or knowledge base will be satisfied.

## 5 Group Award structure

### 5.1 Framework

For a candidate to achieve the HNC Poultry Production, they would require to attain all the Mandatory Units (12 SQA credits/96 SCQF credit points).

Unit title	Code	SCQF credit points	SCQF level	SQA credit value
Poultry Meat Production Systems	F43B 34	8	7	1
Poultry Egg Production Systems	F43A 34	8	7	1
Poultry Health	F4SE 34	8	7	1
Poultry Welfare and Behaviour	F43D 34	8	7	1
Poultry Nutrition and Feed Formulation	F43C 34	8	7	1
Avian Physiology	F438 34	8	7	1
Incubation of Hatching Eggs	F439 34	8	7	1
Poultry Buildings and Mechanisation	F423 34	8	7	1
Pollution and Waste Management: an Introduction	F2EE 34	8	7	1
Business Management: an Introduction	J1BV 34*	8	7	1
Information Technology: Applications Software 1	D75X 34	8	7	1
Poultry Production: Graded Unit 1	F4TG 34	8	7	1

\* 1 credit = 8 SCQF credit points

#### Graded Unit information

The purpose of the Graded Unit is to assess candidates' ability to integrate and apply the Knowledge and/or Skills gained in the individual Units to demonstrate that they have achieved the principal aims of the Group Award, and to grade the candidates' achievement. The Graded Unit also provides an opportunity to develop the Core Skills of *Problem Solving*, *Numeracy*, *Communication* and *Information Technology* in an integrated way within the context of the course.

Candidates will be required to complete a one credit Graded Unit at SCQF level 7 for the Poultry Production HNC. The consultation process indicated support for a project-based Graded Unit. This could involve the development of recommendations for optimising productivity of a poultry production Unit and candidates would produce a report covering the planning, developing and evaluation stages of their project (case study). This closely fits the aims of the Poultry Production HNC, and will allow candidates to integrate their knowledge and understanding of poultry production and the poultry industry whilst developing their Core Skills within a businesslike environment.

## Recommended Entry and Exit levels for Core Skills

Core Skill	Recommended minimum Entry level	Recommended Exit level
Communication	4	5
Information Technology	4	6
Numeracy	4	5
Problem Solving	4	5
Working with Others	4	5

Mapping of the Core Skills within the Group Award can be found in Appendix 2.

### 5.2 Mapping Information

The aims of the Group Award are met within the Units, all of which are mandatory. The mapping of these general and specific aims throughout the framework is indicated in Appendix 1. The Graded Unit is particularly important in meeting the overall aims of the Group Award.

### Sector Skills

Sector Skill Councils are now taking prominent positions within the development and structure of vocational training, as well as providing National Occupational Standards (NOS) to be met within each subject area. LANTRA (The Sector Skills Council for the environmental and land-based sector) provide Agricultural Livestock Standards relevant to this Group Award and these have been mapped, at Level 3, against Unit content. There is also limited overlap with the Agricultural Management Standards at Level 4. This mapping is given in Appendix 3, and indicates the commonality of course content with workplace-based National/Scottish Vocational Qualifications (NVQ/SVQs).

### 5.3 Articulation

The HNC Poultry Production does not articulate directly with an HND award. However, candidates who wish to continue to further study may have the opportunity to progress to the second year of a related degree programme such as Agriculture.

### 5.3 Credit transfer

Candidates may be given credit transfer between HN Units (developed using 1988 design principles) and the revised HN Units (developed using 2003 design principles).

Credit transfer can be given where there is broad equivalence between the subject related content of the Unit or combination of Units. Candidates who are given credit transfer between predecessor Units and revised HN Units must still satisfy all other conditions of the revised HNC Poultry Production, including the mandatory Units, Graded Units and the correct number of credits at the correct SCQF level.

The table below details where credit transfer can be given between predecessor Units and revised Units. These have been agreed by the External Verifier.

**Alternative route for candidates transferring from the predecessor HNC to the revised HNC**

New Unit		Equivalent predecessor Unit or parts and combinations of Units		Credit transfer	Comments
Unit code	Unit title	Unit code	Unit title		
F43B 34 <i>and</i> F43A 34	Poultry Meat Production Systems <i>and</i> Poultry Egg Production Systems	DF7R 04 <i>and</i> DF2C 04	Poultry Production Systems: An Introduction <i>and</i> Poultry Production Systems 2	Complete by combination stated	
F4SE 34	Poultry Health			None	Topic previously delivered at HND level
F43D 34	Poultry Welfare and Behaviour	DF18 04	Poultry Welfare and Behaviour	Complete	
F43C 34	Poultry Nutrition and Feed Formulation			None	Topic previously delivered at HND level
F438 34	Avian Physiology			None	Topic previously delivered at HND level
F439 34	Incubation of Hatching Eggs	DF1H 04	Production and Incubation of Hatching Eggs	Complete	
F423 34	Poultry Buildings and Mechanisation	DF1J 04	Poultry Mechanisation and Feeding Systems	Partial Outcomes	The new Unit also includes material previously delivered at HND level
F2EE 34	Pollution and Waste Management: an Introduction			None	Topic previously delivered at HND level
F1RJ 34	Business Management: an Introduction			None	Business topics were delivered at HND level
D75X 34	Information Technology: Applications Software 1	DG0T 04	Practical Use of Software Application Packages	Complete	
TBC	Poultry Production: Graded Unit 1			None	Graded Unit did not exist in the predecessor Group Award

## **6 Approaches to delivery and assessment**

### **6.1 Content and Context**

The delivery of Units will be by a combination of lectures, tutorials, laboratory and farm-based practical classes, discussion groups and industrial visits.

The Group Award can be offered full-time, part-time or could be developed for distance/flexible delivery. Candidates may also wish to study individual Units and the poultry-specific Units, in particular, may be attractive to industry employees for CPD. A future possibility could be to develop a SQA Professional Development Award (PDA) aligned to National Occupational Standards in the poultry industry.

There is reasonable flexibility in the sequence of Unit delivery, although it is essential that the order is developed with the requirements of the Graded Unit in mind. A possible timetable for delivery is indicated in Appendix 4.

The overall assessment strategy under the new SQA Design Principles is to encourage a more holistic approach to assessment and this has been adopted within the Group Award. The new HN Unit specification places the emphasis on reducing the assessment load for both candidates and centres by devising assessments that assess whole Outcomes or combinations of Outcomes within a Unit. There may also be the opportunity to integrate some assessments across Units and this would be encouraged as a further means of reducing assessment load and streamlining assessments.

The assessment of the Graded Unit should be undertaken in the latter part of the Group Award since this Unit is used to judge whether candidates have met the principal aims of the Group Award and to provide an indication of the level of performance. Candidates should be provided with detailed guidance on how to plan and prepare for their Graded Unit followed by regular tutorials to develop the skills required.

In addition to the specific, poultry skills covered in the award, employability will be enhanced through development of important, transferable Core Skills.

Additionally, whilst preparing job applications is not covered in a specific Unit, candidates may be encouraged to use an e-portfolio (eg *Pebblepad*) for personal development planning. The Group Award is designed to provide practical skills in rearing birds and industrial visits should be included to complement course delivery.

### **6.2 Guidance on Open Learning**

Full details on the suitability of individual Units for open learning are contained in each individual Unit specification. Overall, aspects of many Units could be delivered on an open learning basis but further consideration of practical components would be required. It would also be necessary to have procedures in place to authenticate the work produced by candidates who do not undertake assessments within the centre. Further information on open and distance learning arrangements are available in SQA guides/publications.

## 7 General information for centres

### Candidates with disabilities and/or additional support needs

The additional support needs of individual candidates should be taken into account when planning learning experiences, selecting assessment instruments, or considering alternative Outcomes for Units. Further advice can be found in the SQA document *Guidance on Assessment Arrangements for Candidates with Disabilities and/or Additional Support Needs* ([www.sqa.org.uk](http://www.sqa.org.uk)).

### 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 proposed Group Award of Poultry Production HNC has been designed to meet the demands and requirements for employment in the poultry industry, and prepare for further vocational training to develop and advance a career in this dynamic sector. It is suitable for a wide range of candidates including:

- ◆ School leavers
- ◆ Returners to education
- ◆ Candidates studying courses within the Scottish Wider Access Programme (SWAP), eg Animal Studies, or other relevant NC Courses
- ◆ Candidates in employment who wish to enhance their career prospects
- ◆ People changing direction/seeking a change in career
- ◆ Part time candidates wishing to broaden skills and knowledge

The Group Award will be made on successful completion of the 12 mandatory SCQF level 7 Units (96 SCQF credit points).

The course is structured over one year of full-time study, but can also be taken on a part-time basis (normally over 2 years, ie six Units per academic session). It is delivered using a range of teaching and learning methods such as lectures, practical classes and tutorials, with farm/industry visits to supplement these college based activities. You will study all aspects of poultry production such as health, welfare and nutrition, as well as learning about the buildings and equipment necessary for the efficient production of poultry eggs and meat. Environmental issues and a basic knowledge of business management are also included. Throughout the course you will have the opportunity to further develop your Core Skills in *Communication, Numeracy, Information Technology, Problem Solving* and *Working with Others*.

Assessments may include in-class tests, practical assessments, assignments, reports and projects. The overall strategy is to have a holistic approach to assessment and aim to minimise the assessment load.

The Graded Unit is designed to assess and grade your ability to provide a planning document indicating key milestones, prepare a development plan and then evaluate your management and effectiveness in producing the final recommendations. For this Group Award the assessment type is a case study covering a poultry production scenario, and this will be introduced to you at the start of the course. Tutors for the other Units within the Group Award will explain how their particular Unit might influence your Graded Unit assessment.

The poultry industry forms a significant part of the UK food industry and demand for trained personnel with a good background in the poultry sector is high. On successful completion of the HNC Poultry Production, you are likely to gain employment in:

- ◆ Production Units
- ◆ Hatchery Units
- ◆ Poultry Processing
- ◆ Feed Manufacture
- ◆ Inspection Services
- ◆ Technical Support
- ◆ Quality Assurance

Although the Group Award has been designed primarily as a route to employment in the poultry industry, there may be the opportunity to progress to the second year of a degree programme, such as Agriculture. You are advised to check entry requirements with the appropriate college/university admissions departments.

## 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.

## 10 Appendices

Appendix 1: Mapping of aims and Units

Appendix 2: Mapping of Core Skills and Units

Appendix 3: Mapping of National Occupational Standards to Units

Appendix 4: Suggested delivery schedule for Units



## Appendix 1: Mapping of aims and Units

Unit code	Unit title	Aims								
		1	2	3	4	5	6	7	8	9
F43B 34	Poultry Meat Production Systems	✓	✓	✓	✓	✓		✓	✓	✓
F43A 34	Poultry Egg Production Systems	✓	✓	✓	✓	✓		✓	✓	✓
F4SE 34	Poultry Health	✓	✓	✓	✓	✓	✓	✓	✓	✓
F43D34	Poultry Welfare and Behaviour	✓	✓	✓	✓	✓		✓	✓	✓
F43C 34	Poultry Nutrition and Feed Formulation	✓	✓	✓	✓	✓	✓		✓	✓
F438 34	Avian Physiology	✓	✓	✓	✓		✓		✓	✓
F439 34	Incubation of Hatching Eggs	✓	✓	✓	✓	✓	✓		✓	✓
F423 34	Poultry Buildings and Mechanisation	✓	✓	✓	✓	✓			✓	✓
F2EE 34	Pollution and Waste Management: an Introduction	✓	✓	✓	✓	✓	✓		✓	✓
F1RJ 34	Business Management: an Introduction	✓	✓	✓	✓				✓	✓
D75X 34	Information Technology Applications Software 1		✓	✓	✓				✓	✓
F4TG 34	Poultry Production: Graded Unit 1	✓	✓	✓	✓	✓	✓	✓	✓	✓

## Appendix 2: Mapping of Core Skills and Units

No. = SCQF level of Core Skills development

All Core Skills are signposted, except where indicated with E (embedded and certificated).

Unit code	Unit title	Communication		Numeracy		Information Technology	Problem Solving			Working with Others
		Oral	Written	Using Number	Using Graphical Information		Critical Thinking	Planning and Organising	Reviewing and Evaluating	
F43B 34	Poultry Meat Production Systems	6	6	6						
F43A 34	Poultry Egg Production Systems		6	5						
F4SE 34	Poultry Health	6	6							
F43D 34	Poultry Welfare and Behaviour		6				6			
F43C 34	Poultry Nutrition and Feed Formulation			6	6	6	6	6	6	
F438 34	Avian Physiology	6	6							
F439 34	Incubation of Hatching Eggs			6	6		6	6	6	
F423 34	Poultry Buildings and Mechanisation			6	6					

Unit code	Unit title	Communication		Numeracy		Information Technology	Problem Solving			Working with Others
		Oral	Written	Using Number	Using Graphical Information		Critical Thinking	Planning and Organising	Reviewing and Evaluating	
F2EE 34	Pollution and Waste Management: an Introduction		6				6		6	6
F1RJ 34	Business Management: an Introduction	6	6	5				5		
D75X 34	Information Technology Applications Software 1					6 E				
F4TG 34	Poultry Production: Graded Unit 1	5	5	5	5	6	5	5	5	

### Appendix 3: Mapping of National Occupational Standards to Units

Unit code	Unit title	Equivalent Occupational Standards
F43B 34	Poultry Meat Production Systems	Prepare for and maintain equipment and machines (CU28) Monitor and maintain the brooding and growth of young birds (LP39) Prepare, monitor and maintain a mechanically controlled livestock production environment (LP36) Monitor and maintain livestock and prepare them for transfer (LP32) Maintain, monitor and evaluate the provision of feed and water to livestock (LP27)
F43A 34	Poultry Egg Production Systems	Establish and maintain egg production (LP43) Prepare for and maintain equipment and machines (CU28) Prepare, monitor and maintain a mechanically controlled livestock production environment (LP36) Monitor and maintain the collection, grading and preparation of eggs for transport (LP44) Maintain, monitor and evaluate the provision of feed and water to livestock (LP27)
F4SE 34	Poultry Health	Promote and maintain the healthy performance of livestock (LP25)
F43D 34	Poultry Welfare and Behaviour	Establish, monitor and maintain conditions appropriate to the welfare of livestock (LP24)
F43C 34	Poultry Nutrition and Feed Formulation	Maintain, monitor and evaluate the provision of feed and water to livestock (LP27)
F438 34	Avian Physiology	
F439 34	Incubation of Hatching Eggs	Monitor and maintain the receipt and selection of eggs for hatching (LP40) Monitor and maintain the loading and incubation of hatching eggs (LP41) Establish, monitor and maintain site hygiene and biosecurity (LP26) Monitor and maintain the hatching and despatch of poultry (LP42)
F423 34	Poultry Buildings and Mechanisation	Prepare for and maintain equipment and machines (CU28) Prepare, monitor and maintain a mechanically controlled livestock production environment (LP36) Construct and maintain structures and surfaces (CU18) Plan, monitor and evaluate the construction and maintenance of structures and surfaces (CU26)
F2EE 34	Pollution and Waste Management: an Introduction	Plan, monitor and evaluate the disposal of waste (LP37)

<b>Unit code</b>	<b>Unit title</b>	<b>Equivalent Occupational Standards</b>
F1RJ 34	Business Management: an Introduction	Maintain communications and records within the organisation (CU6) Develop plans to improve your marketing and sales (CU108) Plan how to improve the finances of the business (SFEDI) (G1) Recruit staff (SFEDI) (J4)
D75X 34	Information Technology: Applications Software 1	Receive, transmit and store information within the workplace (CU7)

## Appendix 4: Suggested delivery schedule for Units

Unit code	Unit title	Term 1	Term 2	Term 3
F43B 34	Poultry Meat Production Systems	✓		
F43A 34	Poultry Egg Production Systems		✓	
F4SE 34	Poultry Health			✓
F43D 34	Poultry Welfare and Behaviour	✓		
F43C 34	Poultry Nutrition and Feed Formulation		✓	
F438 34	Avian Physiology	✓		
F439 34	Incubation of Hatching Eggs	✓		
F423 34	Poultry Buildings and Mechanisation		✓	
F2EE 34	Pollution and Waste Management: an Introduction			✓
F1RJ 34	Business Management: an Introduction		✓	
D75X 34	Information Technology: Applications Software 1	✓	✓	
F4TG 34	Poultry Production: Graded Unit 1			✓