



Group Award Specification for:

HNC Rural Animal Health and HND Rural Animal Health

Group Award Code: GT85 15

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Validation date: July 2022

Date of original publication: October 2022

Version: 02 (May 2023)

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1. Introduction

The purpose of this document is to:

- ◆ Assist centres to implement, deliver and manage the qualification.
- ◆ Provide a guide for new staff involved in offering the qualification.
- ◆ Inform course managers teaching staff, assessors, learners, employers and higher education institutes (HEIs) of the aims and purpose of the qualification.
- ◆ Provide details of the range of learners the qualification is suitable for and progression opportunities.

The title for the qualification reflects that the learners will be covering a range of different large and rural animal species. Learners will not only cover livestock or animals which pertain to commercial industry but will also cover species which are kept on small holdings, such as horses and poultry. The teaching of this award will focus on animal health, which will assist with farm and small holding productivity, with animal welfare and public health at the forefront of the teaching. Learners will have the opportunity to enter a range of different employment scenarios.

Successful completion of the HNC would give learners practical skills and abilities in animal handling, performing dynamic risk assessments, and an understanding of health and safety, while working with large animal species, and allow learners to either progress to the HND or to seek employment within the agricultural or veterinary industries, in job roles that involve completing practical tasks with large animals, for example calf rearing. The HND will further develop learner's research and academic skills and deepen their knowledge and understanding of animal disease, biosecurity and public health enabling them to effectively evaluate the health and welfare of animals and make recommendations for improvement.

The HNC/HND in Rural Animal Health has also been developed with a view to potentially meeting an emerging need for suitably qualified veterinary and agricultural/livestock technicians who can support veterinarians and farmers to maintain large animal health and welfare in a rural context. Other areas of potential employment include working as a livestock para-professional, such as a foot trimmer or genomics testers, being employed by nutritional or agricultural companies or to become self-employed within the sector. Alternatively, they may be employed in allied sectors, for example animal welfare or public health (for example as meat hygiene inspectors).

The qualification is aimed at a range of learners including school leavers and adult returners, with a particular interest in rural animal health and welfare. The award may also be suitable for those who are self-employed in the sector or a related discipline.

The HNC supports progression onto the HND Rural Animal Health and potential articulation to related degree programmes, for example BSc (Hons) Agriculture, Applied Animal Science or Animal Welfare Science. Learners must meet the respective entrance requirements of the course they have chosen to apply to. Learners who achieve the HND with two As in the graded units and successfully achieve the optional units 'Cell Biology: Theory and Practice', 'Biochemistry: Theory and Practice' and 'Chemistry and Physics for Life Sciences' unit, may also apply for progression to a veterinary science degree.

There is currently no governing or accrediting body for learners who complete this HNC/HND. However, the RCVS (Royal College of Veterinary Surgeons) is involved in discussions regarding the inclusion of the 'Veterinary Technician' as a registered para-professional role within the RCVS, in the future.

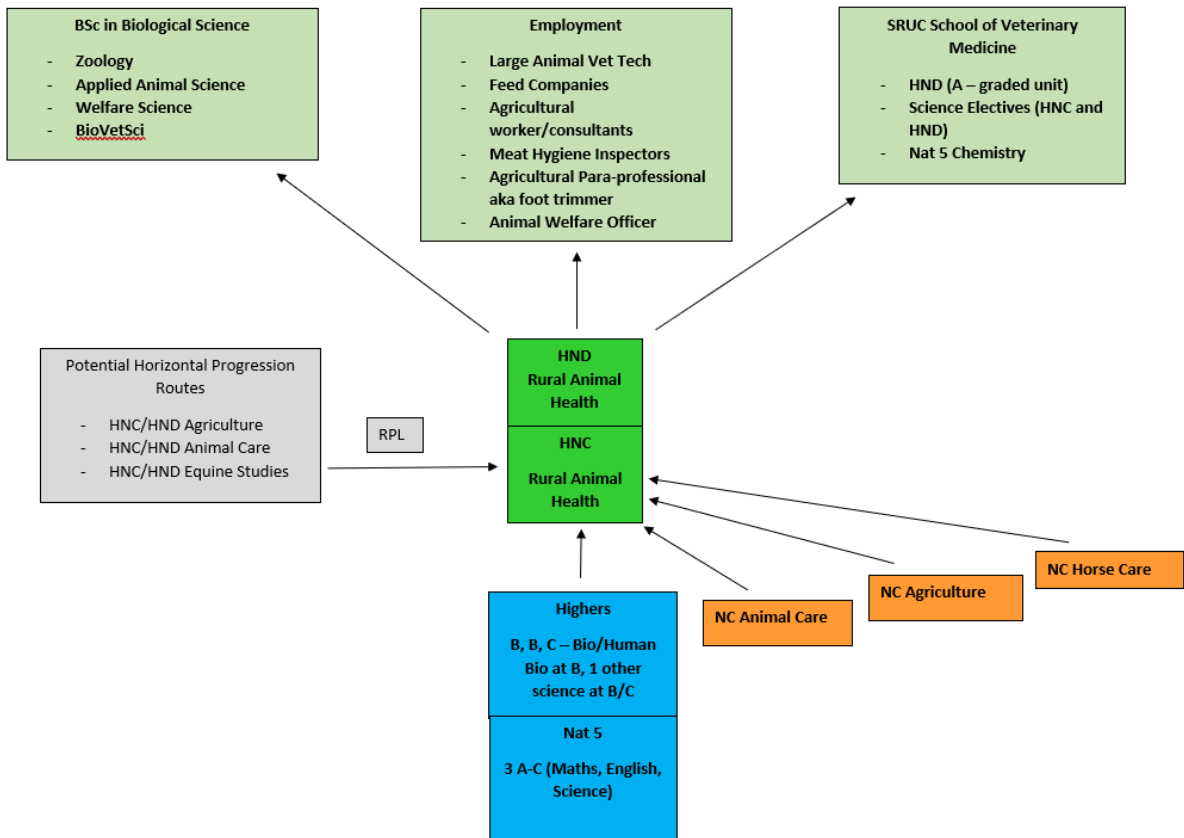


Figure 1: Potential Entry and Exit Points

2. Qualification structure

2.1 Structure

The HNC Rural Animal Health (RAH) at SCQF level 7 requires the learner to achieve 96 SCQF Credit Points to gain the award (12 SQA credits). This should consist of 56 SCQF credit points (7 SQA credits) from the mandatory units and 40 (5 SQA credits) from the optional units. In order to progress to the HND in RAH, learners should achieve the 96 SCQF (12 SQA credits) credit points for the HNC plus an additional 24 SCQF credit points (3 SQA points). Note should be taken of the mandatory framework for the HND when selecting the additional credit points.

The mandatory section contains 56 SCQF credit points at SCQF level 7, and includes an 8 SCQF point, SCQF level 7, graded unit.

Table 1: HNC Rural Animal Health qualification structure

Mandatory units: 56 SCQF credit points required (7 SQA unit credits)

| 4 code | 2 code | Unit title | SQA credit | SCQF credit points | SCQF level |
|--------|--------|--------------------------------------|------------|--------------------|------------|
| H0YG | 34 | Large Animal Healthcare Studies | 1 | 8 | 7 |
| F2E8 | 34 | Livestock Growth, Health and Welfare | 1 | 8 | 7 |
| H7MB | 34 | Communication Practical Skills | 1 | 8 | 7 |
| F3V5 | 34 | Livestock Production Systems | 1 | 8 | 7 |
| F3TY | 34 | Animal Behaviour | 1 | 8 | 7 |
| F2EC | 35 | Livestock Nutrition | 1 | 8 | 8 |
| J6N8 | 34 | Rural Animal Health: Graded Unit 1 | 1 | 8 | 7 |

Optional units: 40 SCQF credit points required (5 SQA unit credits)

| 4 code | 2 code | Unit title | SQA credit | SCQF credit points | SCQF level |
|--------|--------|--|------------|--------------------|------------|
| DJ1K | 34 | Cell Biology: Theory and Practice | 1 | 8 | 7 |
| DH2J | 34 | Biochemistry: Theory and Practice | 1 | 8 | 7 |
| F21J | 34 | Chemistry and Physics for Life Sciences | 1 | 8 | 7 |
| D75X | 34 | Information Technology Applications Software 1 | 1 | 8 | 7 |
| F4SE | 34 | Poultry Health | 1 | 8 | 7 |
| J4RC | 34 | Environmental Awareness | 1 | 8 | 7 |
| J1PK | 34 | Equine Health | 1 | 8 | 7 |
| F43D | 34 | Poultry Welfare and Behaviour | 1 | 8 | 7 |
| F423 | 34 | Poultry Buildings and Mechanisations | 1 | 8 | 7 |
| J1BV | 34 | Business Management: An Introduction | 1 | 8 | 7 |
| HJ4W | 34 | Work Placement | 1 | 8 | 7 |
| DP4L | 34 | Animal Biology | 1 | 8 | 7 |
| J1BG | 34 | Animal Welfare | 1 | 8 | 7 |
| DF21 | 34 | Livestock Physiology | 1 | 8 | 7 |
| F2E6 | 34 | Livestock Breeding | 1 | 8 | 7 |
| F2EA | 34 | Livestock Husbandry and Recording | 1 | 8 | 7 |

| 4 code | 2 code | Unit title | SQA credit | SCQF credit points | SCQF level |
|--------|--------|--|------------|--------------------|------------|
| J1BJ | 34 | Animal Care: Microbiology | 1 | 8 | 7 |
| DP1M | 34 | Equine Studies: Equine Nutrition | 1 | 8 | 7 |
| F3V5 | 34 | Livestock Production Systems: Health and Welfare | 1 | 8 | 7 |

For a learner to achieve the HND in Rural Animal Health they must successfully complete all of the mandatory units (Table 2), including one graded unit at SCQF level 7, and one double credit graded unit at SCQF level 8 (160 SCQF credit points/20 SQA credits). Learners must also achieve 80 SCQF credit points/10 SQA credits from the available optional units.

Table 2: HND Rural Animal Health qualification structure

Mandatory units: 160 SCQF credit points required (20 SQA unit credits)

| 4 code | 2 code | Unit title | SQA credit | SCQF credit points | SCQF level |
|--------|--------|---|------------|--------------------|------------|
| H0YG | 34 | Large Animal Healthcare Studies | 1 | 8 | 7 |
| F2E8 | 34 | Livestock Growth, Health and Welfare | 1 | 8 | 7 |
| H7MB | 34 | Communication Practical Skills | 1 | 8 | 7 |
| F3V5 | 34 | Livestock Production Systems | 1 | 8 | 7 |
| F3TY | 34 | Animal Behaviour | 1 | 8 | 7 |
| F2EC | 35 | Livestock Nutrition | 1 | 8 | 8 |
| J6N8 | 34 | Rural Animal Health: Graded Unit 1 | 1 | 8 | 7 |
| F2E6 | 34 | Livestock Breeding | 1 | 8 | 7 |
| DF21 | 34 | Livestock Physiology | 1 | 8 | 7 |
| F2EB | 35 | Livestock Management Systems | 1 | 8 | 8 |
| F2E9 | 35 | Livestock Health: Approaches to Disease Control | 1 | 8 | 8 |
| HC47 | 35 | Animal Care: Diagnostic Techniques | 1 | 8 | 8 |
| J6G0 | 35 | Rural Animal Health: Housing | 2 | 16 | 8 |
| J6FY | 35 | Rural Animal Health: Biosecurity | 2 | 16 | 8 |
| J6G1 | 35 | Rural Animal Health: Public Health | 2 | 16 | 8 |
| J6N9 | 35 | Rural Animal Health: Graded Unit 2 | 2 | 16 | 8 |

Optional units: 80 SCQF credit points required (10 SQA unit credits)

| 4 code | 2 code | Unit title | SQA credit | SCQF credit points | SCQF level |
|--------|--------|--|------------|--------------------|------------|
| DJ1K | 34 | Cell Biology: Theory and Practice | 1 | 8 | 7 |
| DH2J | 34 | Biochemistry: Theory and Practice | 1 | 8 | 7 |
| F21J | 34 | Chemistry and Physics for Life Sciences | 1 | 8 | 7 |
| D75X | 34 | Information Technology Applications Software 1 | 1 | 8 | 7 |
| F4SE | 34 | Poultry Health | 1 | 8 | 7 |
| J4RC | 34 | Environmental Awareness | 1 | 8 | 7 |
| J1PK | 34 | Equine Health | 1 | 8 | 7 |
| F43D | 34 | Poultry Welfare and Behaviour | 1 | 8 | 7 |

| 4 code | 2 code | Unit title | SQA credit | SCQF credit points | SCQF level |
|---------------|---------------|--|-------------------|---------------------------|-------------------|
| F423 | 34 | Poultry Buildings and Mechanisations | 1 | 8 | 7 |
| J1BV | 34 | Business Management: An introduction | 1 | 8 | 7 |
| HJ4W | 34 | Work Placement | 1 | 8 | 7 |
| F2EA | 34 | Livestock Husbandry and Recording | 1 | 8 | 7 |
| J1BJ | 34 | Animal Care: Microbiology | 1 | 8 | 7 |
| F3V5 | 34 | Livestock Production Systems: Health and Welfare | 1 | 8 | 7 |
| D7CY | 35 | Information Technology Applications Software 2 | 1 | 8 | 8 |
| HC48 | 35 | Animal Care: Drugs and Medicines | 1 | 8 | 8 |
| F1Y7 | 35 | Farm Manures, Wastes and Environments | 1 | 8 | 8 |
| J2GY | 35 | Animal Care: Ethics | 1 | 8 | 8 |
| J1BN | 35 | Equine Behaviour | 2 | 16 | 8 |
| DP1M | 34 | Equine Studies: Equine Nutrition | 1 | 8 | 7 |
| DP4L | 34* | Animal Biology | 1 | 8 | 7 |

*Refer to History of Changes

If learners wish to progress to a veterinary or animal science-based degree, it is recommended that centres include the following optional units in their delivery:

DJ1K 34: Cell Biology: Theory and Practice.

DH2J 34: Biochemistry: Theory and Practice.

F21J 34: Chemistry and Physics for Life Sciences.

3. Aims of the qualification

The HNC and HND in Rural Animal Health are designed to develop the knowledge and skills required to work in a range of roles in the production and rural animal health industries, and to progress to further studies at degree level.

The HNC in Rural Animal Health will focus on development of practical handling skills for the rural animal species covered, while using dynamic risk assessments to ensure their own and the animals' safety and welfare. The HNC award will also give learners the opportunity to develop underlying knowledge regarding anatomy and physiology of the rural animal species, animal husbandry and animal welfare, understanding animal behaviour and the way animals are used within an economic industry. This will benefit the learners by giving them underlying knowledge to either seek employment, or to further progress their studies.

The HND in Rural Animal Health will build on the knowledge gained by learners within the HNC, and will develop a further understanding of animal disease, the immune system of the species, herd health and disease prevention, and evaluative procedures involved in biosecurity, animal housing as well as public health as it pertains to the species involved.

3.1 General aims of the qualification

The general aims of the HNC and HND are to:

1. Ensure learners are aware of safe working practices and health and safety issues while working with rural and large animals.
2. Develop core skills and other transferable skills that enable learners to perform and communicate effectively in the workplace.
3. Develop the ability to work independently, as well as part of a team, and be accountable for personal performance.
4. Develop the ability to apply knowledge in practical situations.
5. Enable progression both within and outwith the SCQF.
6. Develop understanding of rural animal health, welfare and ethics when working with these species.

3.2 Specific aims of the qualification

The specific aims of the **HNC** are to:

7. Develop professional communication skills.
8. Develop knowledge and understanding of the cellular basis of disease.
9. Develop an understanding of the context in which the rural animal industry operates.
10. Develop knowledge of the anatomy, and understanding of the physiology of rural animal species.
11. Develop knowledge and skills in rural animal husbandry, welfare and ethics.
12. Develop understanding of the behaviour of different rural animal species, throughout their life stages.
13. Develop an understanding of livestock nutrition, and how this can influence health, welfare and production rates.
14. Develop knowledge of writing and implementing risk assessments, and health and safety while working with rural animal species.
15. Develop the ability to safely undertake a range of practical skills relevant to working with rural animal species.

The specific aims of the **HND** are to:

16. Develop an understanding of rural animal diseases, with emphasis on prevention and control of disease through improvement of animal health and welfare.
17. Develop ability to plan, implement, manage and evaluate biosecurity measures to promote public health.
18. Develop an understanding of relevant Public Health protocols and protection.
19. Develop the ability to evaluate health and welfare of rural animals in a range of situations and make recommendations for improvement.
20. Develop skills to evaluate animals and their environments in terms of promotion of animal health and welfare and prevention of disease.

3.3 Graded units

The purpose of the graded units is to assess the learner's ability to integrate and apply the knowledge and/or skills gained in the individual contributing units, to demonstrate that they have achieved the aims of the awards, and to grade learner achievement. The graded units will be assessed and a grade of A, B or C will be awarded.

The graded unit in the HNC year will take the form of a closed-book written examination. The questions in this graded unit will be case-based scenarios and the learner will be asked to describe their approach to the case, in an extended answer fashion. The rationale for including an Exam-based Graded Unit is to assist those learners who wish to progress to higher education and particularly those who wish to undertake the Veterinary Medicine degree.

The graded unit in the HND year will take the form of a project, which will be a farm analysis and report, to protect and improve animal welfare. This will prepare learners appropriately for employment within the rural animal or public health sector as the process of evaluating a farm or small holding to look for areas of improvement will demonstrate the culmination of their knowledge and skills across the award. Learners will be supported to select an appropriate farm/ small holding to enable them to successfully achieve the competencies associated with this graded unit. By assisting learners to choose an appropriate facility to evaluate, this will assist in ensuring that learners have equal opportunities to achieve. Ultimately this graded unit requires learners to demonstrate their ability to communicate the outcomes of their findings both to fellow professionals, as well as the farmer or animal owner, using relevant language and communication skills. These skills will be invaluable in their future career.

4. Recommended entry to the qualification

Entry to this qualification is at the discretion of the centre. The following information on prior knowledge, skills, experience or qualifications that provide suitable preparation for this qualification has been provided by the Qualification Design Team (QDT) as guidance only.

Learners would benefit from having attained the skills, knowledge and understanding required by one or more of the following or equivalent qualifications and/or experience:

- ◆ Three National 5s at grade A–C in English, Maths and Science and,
- ◆ Three Highers at BBC, with Biology/Human Biology at a B, and one other science at a B/C.
- ◆ Relevant work experience at a large animal or mixed animal veterinary practice would be very beneficial.
- ◆ Relevant NC/HNC in animal, science or animal science courses may also be accepted.

4.1 Core Skills entry profile

The Core Skill entry profile provides a summary of the associated assessment activities that exemplify why a particular level has been recommended for this qualification. The information would be used to identify if additional learning support needs to be put in place for learners whose Core Skills profile is below the recommended entry level or whether learners should be encouraged to do an alternative level or learning programme.

| Core Skill | Recommended SCQF entry profile | Associated assessment activities |
|--|---------------------------------------|--|
| Communication | SCQF level 5 | Reports; extended response questions; presentations, oral communication, written reports, reading reports. |
| Numeracy | SCQF level 5 | Statistics and analysis, breeding calculations. |
| Information and Communication Technology (ICT) | SCQF level 5 | Collecting, collating and presenting evidence/data, presentations, reports. |
| Problem Solving | SCQF level 4 | Practical activities in real life environments/project report and evaluation. |
| Working with Others | SCQF level 4 | Working in groups, working with members of the public. |

5. Additional benefits of the qualification in meeting employer needs

This qualification was designed to meet a specific purpose and what follows are details on how that purpose has been met through mapping of the units to the aims of the qualification. Through meeting the aims, additional value has been achieved by linking the unit standards with those defined in national occupational standards and/or trade/professional body requirements. In addition, significant opportunities exist for learners to develop the more generic skill, known as Core Skills through doing this qualification.

5.1 Mapping of qualification aims to units

General aims for HNC and HND:

| Code | Unit title | Aim 1 | Aim 2 | Aim 3 | Aim 4 | Aim 5 | Aim 6 |
|---------|---|-------|-------|-------|-------|-------|-------|
| H0YG 34 | Large Animal Healthcare Studies | X | X | X | X | X | X |
| DJ1K 34 | Cell Biology: Theory and Practice | | | X | X | X | |
| DH2J 34 | Biochemistry: Theory and Practice | | | X | X | X | |
| F2E8 34 | Livestock Growth, Health and Welfare | X | | X | X | X | X |
| H7MB 34 | Communication Practical Skills | | X | X | X | X | |
| F3V5 34 | Livestock Production Systems | | X | X | | X | X |
| F21K 34 | Livestock Physiology | | | X | | X | |
| J1BG 34 | Animal Welfare | | X | X | | X | X |
| F3TY 34 | Animal Behaviour | X | X | X | | X | X |
| F2E6 34 | Livestock Breeding | X | X | X | X | X | X |
| F2EC 35 | Livestock Nutrition | | X | X | X | X | X |
| F2EB 35 | Livestock Management Systems | | X | X | | X | X |
| F2E9 35 | Livestock Health: Approaches to Disease Control | | | X | X | X | X |
| HC47 35 | Animal Care: Diagnostic Techniques | X | X | X | X | X | X |
| F1Y7 35 | Farm Manures, Wastes and Environment | | | X | | X | X |
| HC48 35 | Animal Care: Drugs and Medicines | | | X | | X | X |
| J6G0 35 | Rural Animal Health: Housing | X | X | X | X | X | X |
| J6FY 35 | Rural Animal Health: Biosecurity | X | X | X | X | X | X |
| J6G1 35 | Rural Animal Health: Public Health | X | X | X | X | X | X |
| F1YB 35 | Pasture Management | | | X | | X | |
| D75X 34 | Information Technology Applications Software 1 | | X | X | X | X | |
| F4SE 34 | Poultry Health | X | | X | | X | X |
| J4RC 34 | Environmental Awareness | | X | X | | X | |
| J1PK 34 | Equine Health | X | | X | X | X | X |
| F43D 34 | Poultry Welfare and Behaviour | | X | X | | X | X |
| F423 34 | Poultry Buildings and Mechanisations | | | X | | X | X |
| J1BV 34 | Business Management: An Introduction | | X | X | | X | |

| Code | Unit title | Aim 1 | Aim 2 | Aim 3 | Aim 4 | Aim 5 | Aim 6 |
|---------|--|-------|-------|-------|-------|-------|-------|
| HJ4W 34 | Work Placement | | X | X | X | X | |
| F2EA 34 | Livestock Husbandry and Recording | X | X | X | X | X | X |
| J1BJ 34 | Animal Care: Microbiology | | | X | | X | X |
| F3V5 34 | Livestock Production Systems: Health and Welfare | | | X | | X | X |
| J2GY 35 | Animal Care: Ethics | | X | X | | X | X |
| J1BN 35 | Equine Behaviour | | | X | X | X | X |
| DP1M 34 | Equine Studies: Equine Nutrition | | | X | X | X | |
| D7CY 35 | ITAS 2 | | X | X | X | X | |

Specific aims for HNC:

| Code | Unit title | Aim 7 | Aim 8 | Aim 9 | Aim 10 | Aim 11 | Aim 12 | Aim 13 | Aim 14 | Aim 15 |
|---------|--------------------------------------|-------|-------|-------|--------|--------|--------|--------|--------|--------|
| H0YG 34 | Large Animal Healthcare Studies | X | X | X | X | X | X | | X | X |
| DJ1K 34 | Cell Biology: Theory and Practice | | X | | | | | | | X |
| DH2J 34 | Biochemistry: Theory and Practice | | | | | | | | | X |
| F2E8 34 | Livestock Growth, Health and Welfare | | X | X | X | X | X | X | | X |
| H7MB 34 | Communication Practical Skills | X | | | | | | | | X |
| F3V5 34 | Livestock Production Systems | X | | X | | X | | X | | X |
| F21K 34 | Livestock Physiology | | | | X | | X | X | | X |
| J1BG 34 | Animal Welfare | | | | | X | | X | | X |
| F3TY 34 | Animal Behaviour | | | | | | X | | X | X |
| F2E6 34 | Livestock Breeding | | | X | X | X | X | | X | X |
| F2EC 35 | Livestock Nutrition | | | X | X | X | X | X | | X |

| Code | Unit title | Aim 7 | Aim 8 | Aim 9 | Aim 10 | Aim 11 | Aim 12 | Aim 13 | Aim 14 | Aim 15 |
|---------|---|-------|-------|-------|--------|--------|--------|--------|--------|--------|
| F2EB 35 | Livestock Management Systems | | | X | | X | | X | | X |
| F2E9 35 | Livestock Health: Approaches to Disease Control | X | X | X | | X | | | X | X |
| HC47 35 | Animal Care: Diagnostic Techniques | | X | X | X | X | X | | X | X |
| F1Y7 35 | Farm Manures, Wastes and Environment | | | X | | X | | | X | |
| HC48 35 | Animal Care: Drugs and Medicines | | X | X | | X | | | | |
| J6G0 35 | Rural Animal Health: Housing | X | X | X | | X | | | X | X |
| J6FY 35 | Rural Animal Health: Biosecurity | X | X | X | | X | | | X | X |
| J6G1 35 | Rural Animal Health: Public Health | X | X | X | | X | | | X | X |
| F1YB 35 | Pasture Management | | | X | | X | | | | |
| D75X 34 | Information Technology Applications Software 1 | X | | | | | | | | X |
| F4SE 34 | Poultry Health | | X | X | X | X | X | | X | X |
| J4RC 34 | Environmental Awareness | | | | | | | | | |
| J1PK 34 | Equine Health | | X | X | X | X | X | | X | X |
| F43D 34 | Poultry Welfare and Behaviour | | | X | | X | X | | X | X |
| F423 34 | Poultry Buildings and Mechanisations | | | X | | | | | X | X |
| J1BV 34 | Business Management: An Introduction | X | | | | | | | | |
| HJ4W 34 | Work Placement | X | | X | | | | | X | X |
| F2EA 34 | Livestock Husbandry and Recording | | | X | | X | | X | | X |

| Code | Unit title | Aim 7 | Aim 8 | Aim 9 | Aim 10 | Aim 11 | Aim 12 | Aim 13 | Aim 14 | Aim 15 |
|---------|--|-------|-------|-------|--------|--------|--------|--------|--------|--------|
| J1BJ 34 | Animal Care: Microbiology | | X | | | | | | | X |
| F3V5 34 | Livestock Production Systems: Health and Welfare | | X | X | | X | | X | | X |
| J2GY 35 | Animal Care: Ethics | X | | | | X | | | | X |
| J1BN 35 | Equine Behaviour | | | X | | X | X | | | X |
| DP1M 34 | Equine Studies: Equine Nutrition | | | X | | X | | X | | X |
| D7CY 35 | ITAS 2 | X | | | | | | | | X |

Specific aims for HND:

| Code | Unit title | Aim 16 | Aim 17 | Aim 18 | Aim 19 | Aim 20 |
|---------|---|--------|--------|--------|--------|--------|
| H0YG 34 | Large Animal Healthcare Studies | X | X | X | X | X |
| DJ1K 34 | Cell Biology: Theory and Practice | X | | | | |
| DH2J 34 | Biochemistry: Theory and Practice | X | | | | |
| F2E8 34 | Livestock Growth, Health and Welfare | X | | | X | X |
| H7MB 34 | Communication Practical Skills | | | | | |
| F3V5 34 | Livestock Production Systems | | X | X | | |
| F21K 34 | Livestock Physiology | X | | | | |
| J1BG 34 | Animal Welfare | | | | X | X |
| F3TY 34 | Animal Behaviour | X | | | | |
| F2E6 34 | Livestock Breeding | X | | | | |
| F2EC 35 | Livestock Nutrition | X | | | | |
| F2EB 35 | Livestock Management Systems | | X | X | X | X |
| F2E9 35 | Livestock Health: Approaches to Disease Control | X | | X | | X |
| HC47 35 | Animal Care: Diagnostic Techniques | X | | X | | X |
| F1Y7 35 | Farm Manures, Wastes and Environment | | | | | |
| HC48 35 | Animal Care: Drugs and Medicines | | | | | |

| Code | Unit title | Aim 16 | Aim 17 | Aim 18 | Aim 19 | Aim 20 |
|---------|--|--------|--------|--------|--------|--------|
| J6G0 35 | Rural Animal Health: Housing | X | X | X | X | X |
| J6FY 35 | Rural Animal Health: Biosecurity | X | X | X | X | X |
| J6G1 35 | Rural Animal Health: Public Health | X | X | X | X | X |
| F1YB 35 | Pasture Management | | | | | |
| D75X 34 | Information Technology Applications Software 1 | | | | | |
| F4SE 34 | Poultry Health | X | X | X | X | X |
| J4RC 34 | Environmental Awareness | | | | | |
| J1PK 34 | Equine Health | X | X | X | X | X |
| F43D 34 | Poultry Welfare and Behaviour | | | | X | X |
| F423 34 | Poultry Buildings and Mechanisations | | X | | | |
| J1BV 34 | Business Management: An Introduction | | | | | |
| HJ4W 34 | Work Placement | | X | | | |
| F2EA 34 | Livestock Husbandry and Recording | | | | | X |
| J1BJ 34 | Animal Care: Microbiology | X | | X | X | X |
| F3V5 34 | Livestock Production Systems: Health and Welfare | X | X | X | | X |
| J2GY 35 | Animal Care: Ethics | | | X | | |
| J1BN 35 | Equine Behaviour | | | | | |
| DP1M 34 | Equine Studies: Equine Nutrition | X | | | | |
| D7CY 35 | ITAS 2 | | | | | |

5.2 Mapping of National Occupational Standards (NOS) and/or trade body standards

| Code | Unit title | National Occupational Standards (NOS) |
|---------|--------------------------------------|---|
| H0YG 34 | Large Animal Healthcare Studies | <p>Maintain livestock during and after parturition.</p> <p>Ensure health and welfare of livestock.</p> <p>Maintain site biosecurity and personal hygiene.</p> <p>Establish, monitor and maintain conditions appropriate to welfare of livestock.</p> <p>Assist with selecting livestock and preparing them for transfer.</p> <p>Maintain, monitor and evaluate the provision of feed and water to livestock.</p> <p>Promote, monitor and maintain health, safety and security.</p> <p>Observe and be aware of the behaviour of animals.</p> <p>Maintain the health and welfare of animals.</p> <p>Provide food and water to animals.</p> <p>Handle and restrain animals.</p> <p>Plan and control the movement of animals.</p> |
| F2E8 34 | Livestock Growth, Health and Welfare | <p>Ensure health and welfare of livestock.</p> <p>Establish, monitor and maintain conditions appropriate to welfare of livestock.</p> <p>Establish, monitor and maintain conditions appropriate to welfare of livestock.</p> <p>Maintain, monitor and evaluate the provision of feed and water to livestock.</p> <p>Maintain the health and welfare of animals.</p> <p>Provide food and water to animals.</p> <p>Handle and restrain animals.</p> |
| F3V5 34 | Livestock Production Systems | <p>Maintain livestock during and after parturition.</p> <p>Maintain site biosecurity and personal hygiene.</p> <p>Plan, monitor and evaluate the management of livestock systems.</p> <p>Promote, monitor and maintain health, safety and security.</p> <p>Provide food and water to animals.</p> <p>Handle and restrain animals.</p> |

| Code | Unit title | National Occupational Standards (NOS) |
|-------------|---|---|
| J1BG 34 | Animal Welfare | Ensure health and welfare of livestock. Establish, monitor and maintain conditions appropriate to welfare of livestock. Establish, monitor and maintain conditions appropriate to welfare of livestock. Maintain the health and welfare of animals. |
| F3TY 34 | Animal Behaviour | Observe and be aware of the behaviour of animals. |
| F2E6 34 | Livestock Breeding | Collect and prepare semen for the future artificial insemination of livestock. Establish pregnancy and maintain livestock during pregnancy. Maintain livestock during and after parturition. Observe and be aware of the behaviour of animals. Handle and restrain animals. |
| F2EB 35 | Livestock Management Systems | Maintain livestock during and after parturition. Maintain site biosecurity and personal hygiene. Plan, monitor and evaluate the management of livestock systems. Maintain, monitor and evaluate the provision of feed and water to livestock. Promote, monitor and maintain health, safety and security. Provide food and water to animals. Handle and restrain animals. |
| F2E9 35 | Livestock Health: Approaches to Disease Control | Maintain site biosecurity and personal hygiene. Maintain the health and welfare of animals. Handle and restrain animals. |
| J6G0 35 | Rural Animal Health: Housing | Maintain site biosecurity and personal hygiene. Establish, monitor and maintain conditions appropriate to welfare of livestock. Assist with establishing livestock within their accommodation. Assist with preparation and monitoring of livestock outdoors. Promote, monitor and maintain health, safety and security Maintain the health and welfare of animals. Provide information to individuals and groups on how to promote the health and wellbeing of animals. |

| Code | Unit title | National Occupational Standards (NOS) |
|-------------|--|---|
| J6FY 35 | Rural Animal Health: Biosecurity | Maintain site biosecurity and personal hygiene. Establish, monitor and maintain site hygiene and biosecurity. Promote, monitor and maintain health, safety and security. Maintain the health and welfare of animals. Provide information to individuals and groups on how to promote the health and wellbeing of animals. |
| J6G1 35 | Rural Animal Health: Public Health | Maintain site biosecurity and personal hygiene. Establish, monitor and maintain site hygiene and biosecurity. Promote, monitor and maintain health, safety and security. Maintain the health and welfare of animals. Provide information to individuals and groups on how to promote the health and wellbeing of animals. |
| F1YB 35 | Pasture Management | Assist with preparation and monitoring of livestock outdoors. Prepare and monitor livestock on outdoor sites. |
| F4SE 34 | Poultry Health | Maintain the health and welfare of animals. |
| J1PK 34 | Equine Health | Maintain the health and welfare of animals. |
| F43D 34 | Poultry Welfare and Behaviour | Ensure health and welfare of livestock. Establish, monitor and maintain conditions appropriate to welfare of livestock. Establish, monitor and maintain conditions appropriate to welfare of livestock. Maintain the health and welfare of animals. |
| F423 34 | Poultry Buildings and Mechanisations | Maintain the health and welfare of animals. |
| F2EA 34 | Livestock Husbandry and Recording | Maintain the health and welfare of animals. |
| F3V5 34 | Livestock Production Systems: Health and Welfare | Ensure health and welfare of livestock. Establish, monitor and maintain conditions appropriate to welfare of livestock. Establish, monitor and maintain conditions appropriate to welfare of livestock. |

| Code | Unit title | National Occupational Standards (NOS) |
|-------------|-------------------|---|
| | | Maintain the health and welfare of animals. Provide food and water to animals. |

5.3 Mapping of Core Skills development opportunities across the qualifications

Communication

| Unit code | Unit title | Written (Reading) | Written (Writing) | Oral |
|-----------|---|-------------------|-------------------|--------------|
| F3TY 34 | Animal Behaviour | X | X | X |
| J1BG 34 | Animal Welfare | X | X | X |
| HC47 35 | Animal Care: Diagnostic Techniques | X | X | X |
| HC48 35 | Animal Care: Drugs and Medicines | X | X | X |
| J4RC 34 | Environmental Awareness | | SCQF level 6 | SCQF level 6 |
| D75X 34 | Information Technology: Applications Software 1 | | | |
| F2E6 34 | Livestock Breeding | | SCQF level 5 | SCQF level 5 |
| F2E8 34 | Livestock Growth, Health and Welfare | | SCQF level 6 | |
| F2EA 34 | Livestock Husbandry and Recording | | | |
| F2ED 34 | Livestock Production Systems | | SCQF level 5 | SCQF level 5 |
| F1Y7 35 | Farm Manures, Wastes and Environments | | SCQF level 6 | SCQF level 6 |
| F2EB 35 | Livestock Management Systems | | | |
| F2EC 35 | Livestock Nutrition | | | |
| H0YG 34 | Large Animal Healthcare Studies | | | X |
| H7MB 34 | Communication Practical Skills | X | X | X |
| DF21 34 | Livestock Physiology | X | X | |
| F2E9 35 | Livestock Health: Approaches to Disease control | X | X | |
| J6G0 35 | Rural Animal Health: Housing | X | X | X |
| J6FY 35 | Rural Animal Health: Biosecurity | X | X | X |
| J6G1 35 | Rural Animal Health: Public Health | X | X | X |
| DDJ1 34 | Cell Biology: Theory and Practice | X | X | |
| DDH2 34 | Biochemistry: Theory and Practice | X | X | |
| DF21 34 | Chemistry and Physics for Life Sciences | X | X | |
| DDP4 34 | Animal Biology | X | X | X |
| F4SE 34 | Poultry Health | X | X | X |
| J1PK 34 | Equine Health | X | X | X |
| F43D | Poultry Welfare and Behaviour | X | X | X |
| F423 34 | Poultry Buildings and Mechanisations | X | X | X |

| Unit code | Unit title | Written (Reading) | Written (Writing) | Oral |
|-----------|--|-------------------|-------------------|------|
| J1BV 34 | Business Management: An Introduction | X | X | X |
| HJ4W 34 | Work Placement | X | X | X |
| J1BJ 34 | Animal Care: Microbiology | X | X | X |
| F3V5 34 | Livestock Production Systems: Health and Welfare | X | X | X |
| DD7C 35 | ITAS 2 | X | X | X |
| J2GY 35 | Animal Care: Ethics | X | X | |
| J1BN 35 | Equine Behaviour | X | X | |
| DP1M 34 | Equine Studies: Equine Nutrition | X | X | |

Numeracy

| Unit code | Unit title | Using Number | Using Graphical Information |
|-----------|---|--------------|-----------------------------|
| F3TY 34 | Animal Behaviour | | |
| J1BG 34 | Animal Welfare | | |
| HC47 35 | Animal Care: Diagnostic Techniques | | |
| HC48 35 | Animal Care: Drugs and Medicines | X | |
| J4RC 34 | Environmental Awareness | SCQF level 6 | SCQF level 6 |
| D75X 34 | Information Technology: Applications Software 1 | | |
| F2E6 34 | Livestock Breeding | SCQF level 6 | SCQF level 6 |
| F2E8 34 | Livestock Growth, Health and Welfare | | |
| F2EA 34 | Livestock Husbandry and Recording | | |
| F2ED 34 | Livestock Production Systems | | |
| F1Y7 35 | Farm Manures, Wastes and Environments | SCQF level 6 | SCQF level 6 |
| F2EB 35 | Livestock Management Systems | SCQF level 6 | SCQF level 6 |
| F2EC 35 | Livestock Nutrition | SCQF level 6 | SCQF level 6 |
| H0YG 34 | Large Animal Healthcare Studies | | |
| H7MB 34 | Communication Practical Skills | | |
| DF21 34 | Livestock Physiology | | |
| F2E9 35 | Livestock Health: Approaches to Disease control | | |
| J6G0 35 | Rural Animal Health: Housing | | |
| J6FY 35 | Rural Animal Health: Biosecurity | | |

| Unit code | Unit title | Using Number | Using Graphical Information |
|-----------|--|--------------|-----------------------------|
| J6G1 35 | Rural Animal Health: Public Health | | |
| DDJ1 34 | Cell Biology: Theory and Practice | X | X |
| DDH2 34 | Biochemistry: Theory and Practice | X | X |
| DF21 34 | Chemistry and Physics for Life Sciences | | |
| DDP4 34 | Animal Biology | | |
| F4SE 34 | Poultry Health | | |
| J1PK 34 | Equine Health | | |
| F43D | Poultry Welfare and Behaviour | | |
| F423 34 | Poultry Buildings and Mechanisations | | |
| J1BV 34 | Business Management: An Introduction | X | X |
| HJ4W 34 | Work Placement | X | X |
| J1BJ 34 | Animal Care: Microbiology | | |
| F3V5 34 | Livestock Production Systems: Health and Welfare | | |
| DD7C 35 | ITAS 2 | | |
| J2GY 35 | Animal Care: Ethics | | |
| J1BN 35 | Equine Behaviour | | |
| DP1M 34 | Equine Studies: Equine Nutrition | | |

Information and Communication Technology (ICT)

| Unit code | Unit title | Accessing Information | Providing/Creating Information |
|-----------|---|-----------------------|--------------------------------|
| F3TY 34 | Animal Behaviour | | |
| J1BG 34 | Animal Welfare | X | X |
| HC47 35 | Animal Care: Diagnostic Techniques | | |
| HC48 35 | Animal Care: Drugs and Medicines | | |
| J4RC 34 | Environmental Awareness | | |
| D75X 34 | Information Technology: Applications Software 1 | SCQF level 6 | SCQF level 6 |
| F2E6 34 | Livestock Breeding | | |
| F2E8 34 | Livestock Growth, Health and Welfare | SCQF level 4 | SCQF level 4 |
| F2EA 34 | Livestock Husbandry and Recording | | |
| F2ED 34 | Livestock Production Systems | | |

| Unit code | Unit title | Accessing Information | Providing/Creating Information |
|-----------|--|-----------------------|--------------------------------|
| F1Y7 35 | Farm Manures, Wastes and Environments | | |
| F2EB 35 | Livestock Management Systems | | |
| F2EC 35 | Livestock Nutrition | SCQF level 6 | SCQF level 6 |
| H0YG 34 | Large Animal Healthcare Studies | | |
| H7MB 34 | Communication Practical Skills | | |
| DF21 34 | Livestock Physiology | | |
| F2E9 35 | Livestock Health: Approaches to Disease control | | |
| J6G0 35 | Rural Animal Health: Housing | | |
| J6FY 35 | Rural Animal Health: Biosecurity | | |
| J6G1 35 | Rural Animal Health: Public Health | | |
| DDJ1 34 | Cell Biology: Theory and Practice | X | X |
| DDH2 34 | Biochemistry: Theory and Practice | X | X |
| DF21 34 | Chemistry and Physics for Life Sciences | | |
| DDP4 34 | Animal Biology | | |
| F4SE 34 | Poultry Health | | |
| J1PK 34 | Equine Health | | |
| F43D | Poultry Welfare and Behaviour | | |
| F423 34 | Poultry Buildings and Mechanisations | | |
| J1BV 34 | Business Management: An Introduction | X | X |
| HJ4W 34 | Work Placement | X | X |
| J1BJ 34 | Animal Care: Microbiology | | |
| F3V5 34 | Livestock Production Systems: Health and Welfare | | |
| DD7C 35 | ITAS 2 | X | X |
| J2GY 35 | Animal Care: Ethics | | |
| J1BN 35 | Equine Behaviour | | |
| DP1M 34 | Equine Studies: Equine Nutrition | | |

Problem Solving

| Unit code | Unit title | Critical Thinking | Planning and Organising | Reviewing and Evaluating |
|-----------|---|-------------------|-------------------------|--------------------------|
| F3TY 34 | Animal Behaviour | | | |
| J1BG 34 | Animal Welfare | SCQF level 5 | X | |
| HC47 35 | Animal Care: Diagnostic Techniques | X | X | X |
| HC48 35 | Animal Care: Drugs and Medicines | | | |
| J4RC 34 | Environmental Awareness | | | |
| D75X 34 | Information Technology: Applications Software 1 | | | |
| F2E6 34 | Livestock Breeding | | | |
| F2E8 34 | Livestock Growth, Health and Welfare | | | |
| F2EA 34 | Livestock Husbandry and Recording | | | |
| F2ED 34 | Livestock Production Systems | | | |
| F1Y7 35 | Farm Manures, Wastes and Environments | | | |
| F2EB 35 | Livestock Management Systems | | | |
| F2EC 35 | Livestock Nutrition | | | |
| H0YG 34 | Large Animal Healthcare Studies | | | |
| H7MB 34 | Communication Practical Skills | | | |
| DF21 34 | Livestock Physiology | X | | X |
| F2E9 35 | Livestock Health: Approaches to Disease control | | | |
| J6G0 35 | Rural Animal Health: Housing | X | X | X |
| J6FY 35 | Rural Animal Health: Biosecurity | X | X | X |
| J6G1 35 | Rural Animal Health: Public Health | X | X | X |
| DDJ1 34 | Cell Biology: Theory and Practice | | | |
| DDH2 34 | Biochemistry: Theory and Practice | | | |
| DF21 34 | Chemistry and Physics for Life Sciences | X | X | X |
| DDP4 34 | Animal Biology | X | X | X |
| F4SE 34 | Poultry Health | X | X | X |
| J1PK 34 | Equine Health | X | X | X |
| F43D | Poultry Welfare and Behaviour | X | X | X |
| F423 34 | Poultry Buildings and Mechanisations | | | |
| J1BV 34 | Business Management: An Introduction | X | X | X |

| Unit code | Unit title | Critical Thinking | Planning and Organising | Reviewing and Evaluating |
|-----------|--|-------------------|-------------------------|--------------------------|
| HJ4W 34 | Work Placement | X | X | X |
| J1BJ 34 | Animal Care: Microbiology | | | |
| F3V5 34 | Livestock Production Systems: Health and Welfare | | | |
| DD7C 35 | ITAS 2 | | | |
| J2GY 35 | Animal Care: Ethics | | | |
| J1BN 35 | Equine Behaviour | | | |
| DP1M 34 | Equine Studies: Equine Nutrition | | | |

Working with Others

| Unit code | Unit title | Working Co-operatively with Others | Reviewing Co-operative Contribution |
|-----------|---|------------------------------------|-------------------------------------|
| F3TY 34 | Animal Behaviour | | |
| J1BG 34 | Animal Welfare | | |
| HC47 35 | Animal Care: Diagnostic Techniques | | |
| HC48 35 | Animal Care: Drugs and Medicines | | |
| J4RC 34 | Environmental Awareness | | SCQF level 6 |
| D75X 34 | Information Technology: Applications Software 1 | | |
| F2E6 34 | Livestock Breeding | | |
| F2E8 34 | Livestock Growth, Health and Welfare | | |
| F2EA 34 | Livestock Husbandry and Recording | SCQF level 5 | SCQF level 5 |
| F2ED 34 | Livestock Production Systems | SCQF level 4 | SCQF level 4 |
| F1Y7 35 | Farm Manures, Wastes and Environments | | |
| F2EB 35 | Livestock Management Systems | | |
| F2EC 35 | Livestock Nutrition | | |
| H0YG 34 | Large Animal Healthcare Studies | X | |
| H7MB 34 | Communication Practical Skills | | |
| DF21 34 | Livestock Physiology | | |
| F2E9 35 | Livestock Health: Approaches to Disease control | | |
| J6G0 35 | Rural Animal Health: Housing | X | X |
| J6FY 35 | Rural Animal Health: Biosecurity | X | X |

| Unit code | Unit title | Working Co-operatively with Others | Reviewing Co-operative Contribution |
|------------------|--|---|--|
| J6G1 35 | Rural Animal Health: Public Health | X | X |
| DDJ1 34 | Cell Biology: Theory and Practice | | |
| DDH2 34 | Biochemistry: Theory and Practice | | |
| DF21 34 | Chemistry and Physics for Life Sciences | | |
| DDP4 34 | Animal Biology | | |
| F4SE 34 | Poultry Health | | |
| J1PK 34 | Equine Health | | |
| F43D | Poultry Welfare and Behaviour | | |
| F423 34 | Poultry Buildings and Mechanisations | | |
| J1BV 34 | Business Management: An Introduction | X | X |
| HJ4W 34 | Work Placement | X | X |
| J1BJ 34 | Animal Care: Microbiology | | |
| F3V5 34 | Livestock Production Systems: Health and Welfare | | |
| DD7C 35 | ITAS 2 | X | X |
| J2GY 35 | Animal Care: Ethics | | |
| J1BN 35 | Equine Behaviour | | |
| DP1M 34 | Equine Studies: Equine Nutrition | | |

5.4 Assessment strategy for the qualifications

| Unit | Assessment: Outcome 1 | Assessment: Outcome 2 | Assessment: Outcome 3 | Assessment: Outcome 4 |
|---|---|---|---|---|
| H0YG 34: Large Animal Healthcare Studies | Closed-book written test under controlled conditions — 1 hour duration. | Practical assessment. | Production of an annotated poster or presentation produced in open-book conditions. | Not applicable. |
| F2E8 34: Livestock Growth, Health and Welfare | Holistic assessment with outcomes 2 and 3 — closed-book, restricted response questions. | Holistic assessment with outcomes 1 and 3 — closed-book, restricted response questions. | Holistic assessment with outcomes 1 and 2 — closed-book, restricted response questions. | Open-book assignment regarding welfare codes, and restricted response assessment covering the other knowledge and skills. |
| H7MB 34: Communication Practical Skills | Summarise written information on a complex vocational issue, and write an evaluation. | Open-book — production of document. | Contribute 5 minutes to formal oral communication — open-book conditions. | Not applicable. |
| F2ED 34: Livestock Productions Systems | Closed-book assessment. | Holistic open-book assessment in combination with outcome 3 — comprising of 2–3 reports based on farm visits. | Holistic open-book assessment in combination with outcome 2 — comprising of 2–3 reports based on farm visits. | Not applicable. |
| F21K 34: Livestock Physiology | Holistic closed-book assessment in conjunction with outcomes 2 and 3, 90 minute assessment. | Holistic closed-book assessment in conjunction with outcomes 1 and 3, 90 minute assessment. | Holistic closed-book assessment in conjunction with outcomes 1 and 2, 90 minute assessment. | In class essay or presentation. |

| Unit | Assessment: Outcome 1 | Assessment: Outcome 2 | Assessment: Outcome 3 | Assessment: Outcome 4 |
|--|--|---|--|--|
| F3TY 34: Animal Behaviour | Closed-book supervised assessment. | Research and short report (written or oral). | Research and short report (written or oral). | Research and short report (written or oral). |
| F2E6 34: Livestock Breeding | Closed-book restricted response assessment. | Closed-book restricted response assessment. | Closed-book restricted response assessment. | Not applicable. |
| F2EC 35: Livestock Nutrition | Closed-book, restricted response assessment. | Closed-book restricted response assessment. | Completion of ration workbook — open-book. | Not applicable. |
| F2EB 35: Livestock Management Systems | Plan and critically evaluate 2 livestock management systems — holistic assessment in conjunction with outcome 2. | Plan and critically evaluate 2 livestock management systems — holistic assessment in conjunction with outcome 1. | Not applicable. | Not applicable. |
| F2E9 35: Livestock Health: Approaches to Disease Control | Single holistic assessment covering outcomes 1, 3 and 4 — closed-book, supervised conditions, mixture of restricted and extended response questions. | Produce scientific report requiring extended response answers or problem solving tasks to set questions, to include referencing and bibliography. | Single holistic assessment covering outcomes 1, 3 and 4 — closed-book, supervised conditions, mixture of restricted and extended response questions. | Single holistic assessment covering outcomes 1, 3 and 4 — closed-book, supervised conditions, mixture of restricted and extended response questions. |
| HC47 35: Animal Care: Diagnostic Techniques | Outcomes 1, 2 and 3 holistically assessed — written assessment consisting of structures questions undertaken in controlled conditions. | Outcomes 1, 2 and 3 holistically assessed — written assessment consisting of structures questions undertaken in controlled conditions. | Outcomes 1, 2 and 3 holistically assessed — written assessment consisting of structures questions undertaken in controlled conditions. | Practical assessment — observation while completing laboratory practical workshops. |

| Unit | Assessment: Outcome 1 | Assessment: Outcome 2 | Assessment: Outcome 3 | Assessment: Outcome 4 |
|---|--|---|--|--|
| J6G0 35: Rural Animal Health: Housing | Open-booked assessment. | Holistic assessment for outcomes 2, 3 and 4 — written report. | Holistic assessment for outcome 2, 3 and 4 — written report. | Holistic assessment for outcomes 2, 3 and 4 — written report. |
| J6FY 35: Rural Animal Health: Biosecurity | Open-booked assessment, assessed concurrently with outcome 1 from unit Rural Animal Health: Public Health. | Holistic assessment of outcome 2, 3 and 4 — practical assessment and evaluation of procedures. Practical assessment could be assessed in conjunction with outcomes 2, 3 and 4 from Rural Animal Health: Public Health. | Holistic assessment of outcome 2, 3 and 4 — practical assessment and evaluation of procedures. Practical assessment could be assessed in conjunction with outcome 2, 3 and 4 from Rural Animal Health: Public Health. | Holistic assessment of outcomes 2, 3 and 4 — practical assessment and evaluation of procedures. Practical assessment could be assessed in conjunction with outcomes 2, 3 and 4 from Rural Animal Health: Public Health. |
| J6G1 35: Rural Animal Health: Public Health | Open-book assessment, assessed concurrently with outcome 1 from units Rural Animal health: Biosecurity. | Practical assessment and follow up report — in conjunction with outcome 3. Assessed in conjunction with outcomes 2, 3 and 4 assessments from Rural Animal Health: Biosecurity. | Practical assessment and follow up report — in conjunction with outcome 2. Assessed in conjunction with outcomes 2, 3 and 4 assessments from Rural Animal Health: Biosecurity. | Practical Assessment and follow up report. Assessed in conjunction with outcomes 2, 3 and 4 assessments from Rural Animal Health: Biosecurity. |

6. Guidance on approaches to delivery and assessment

This award provides learners with knowledge, practical skills and experience, which used appropriately will allow the opportunity for employment or further study within the agricultural, large animal, public health, or veterinary sectors. The Higher National Certificate (that is year one of the award) helps learners to develop their practical skills and develop their knowledge of public health, herd health and care of the large and rural animal. It is the decision of the centre on how this should be delivered. It is recommended that it is delivered through a combination of face to face teaching, online lessons and small group teaching, with an emphasis on practical classes. The focus will be on practical abilities and physical skills that would be required when seeking employment within the agricultural or veterinary industry. The range of knowledge which will be taught through the various teaching methods will give learners a strong foundation in theoretical and practical skills, and will allow learners the ability to apply that knowledge for promotion and protection of animal welfare.

The second year of study allows learners to build on both their theoretical knowledge and practical skills and will introduce evaluative skills allied to the theoretical and practical knowledge, which has been developed. It is recommended that the learning for this year should be delivered as a combination of teaching methods, similar to the teaching plan for the HNC. By emphasising practical-based teaching, the learners will be able to see real life cases, hone their practical handling skills across the range of animal species, as well as making the award as authentic to potential routes of employment as possible. Learners will be given the opportunity to evaluate real animals and environments, and make recommendations for improvements to animal welfare based on their evaluations. The completion of the two years of study will allow learners to achieve an HND in Rural Animal Health.

6.1 Sequencing/integration of units

For the HNC in Rural Animal Health, the proposed sequence of delivery would be as follows:

The units within a term will run concurrently.

Term 1:

- ◆ H0YG 34: Large Animal Healthcare Studies.
- ◆ F2E8 34: Livestock growth, health and welfare.
- ◆ Optional unit.
- ◆ Optional unit.
- ◆ Optional unit.

Term 2:

- ◆ Optional unit.
- ◆ Optional unit.
- ◆ F3TY 34: Animal Behaviour.
- ◆ Optional unit.
- ◆ H7MB 34: Communication: Practical Skills.

Term 3:

- ◆ F2ED 34: Livestock Production Systems.
- ◆ F2EC 35: Livestock Nutrition.
- ◆ Graded unit.
- ◆ Optional unit.
- ◆ Optional unit.

Large Animal Healthcare Studies should be taught at the beginning of the academic year, as this unit covers basic animal handling and health and safety, as well as anatomy and physiology. These are two key areas of knowledge which will be required to underpin the majority of the other units. This will reduce the duplication of content delivery in other units enabling delivery to focus on other aspects of the award.

Livestock growth, health and welfare is recommended to be completed before other units which will be taught in the award, so have been put into Term 1 to allow this.

For the HND in Rural Animal Health, the following delivery sequence would be the most appropriate:

Learners would need to complete the HNC in Rural Animal Health before progressing onto the HND. There are several units in the specification for the HNC, which are recommended before beginning units which are in the HND framework.

Term 1

- ◆ F2E9 35: Livestock Health: Approaches to Disease Control.
- ◆ J6G1 35: Rural Animal Health: Public Health.
- ◆ J6FY 35: Rural Animal Health: Biosecurity.
- ◆ J6G0 35: Rural Animal Health: Housing.
- ◆ Graded unit.

Term 2:

- ◆ F2EB 35: Livestock Management Systems.
- ◆ Optional unit.
- ◆ J6G1 35: Rural Animal Health: Public Health.
- ◆ J6FY 35: Rural Animal Health: Biosecurity.
- ◆ J6G0 35: Rural Animal Health: Housing.
- ◆ Graded unit.

Term 3

- ◆ HC48 35: Animal Care: Diagnostic Techniques.
- ◆ Optional unit.
- ◆ Optional unit.
- ◆ Graded unit.

In Term 1 and Term 2, the units Rural Animal Health: Public Health, Rural Animal Health: Biosecurity and Rural Animal Health: Housing will be taught concurrently. This is because the units will cover similar material, and to allow opportunity for cross-unit teaching. There is also opportunity for cross-unit assessment. Because of this, it is beneficial to have these units taught concurrently.

The units from Term 1 have been allocated to this term, as these are relevant for completion of the graded unit. The graded unit is likely to take significant amount of time to complete, and it would be beneficial for learners to have started these units before commencing the graded unit.

The graded unit for the HND year is a project graded unit, and therefore will require time from the learner to be able to perform the project and then the evaluation. Therefore, it is recommended that time be scheduled throughout each of the terms to give learners sufficient time to complete it. This will also give teachers sufficient time to be able to perform progression interviews and other requirements for the graded unit to be completed throughout the academic year.

6.2 Recognition of prior learning

SQA recognises that learners gain knowledge and skills acquired through formal, non-formal and informal learning contexts.

In some instances, a full group award may be achieved through the recognition of prior learning. However, it is unlikely that a learner would have the appropriate prior learning and experience to meet all the requirements of a full group award.

The recognition of prior learning may **not** be used as a method of assessing in the following types of units and assessments:

- ◆ HN Graded Units.
- ◆ Course and/or external assessments.
- ◆ Other integrative assessment units (which may or not be graded).
- ◆ Certain types of assessment instruments where the standard may be compromised by not using the same assessment method outlined in the unit.
- ◆ Where there is an existing requirement for a licence to practice.
- ◆ Where there are specific health and safety requirements.
- ◆ Where there are regulatory, professional or other statutory requirements.
- ◆ Where otherwise specified in an assessment strategy.

More information and guidance on the *Recognition of Prior Learning* (RPL) may be found on our website www.sqa.org.uk.

The following sub-sections outline how existing SQA units may contribute to this group award. Additionally, they also outline how this group award may be recognised for professional and articulation purposes.

6.2.1 Articulation and/or progression

This award has the potential to allow learners to progress onto several different degree courses. This includes the Veterinary Medicine Degree, the Veterinary Nursing Degree, and BSc in Animal Welfare Sciences. For learners to progress, they must have met the entry requirements to the chosen award. This award has the potential to allow learners to progress onto several different degree courses, including Veterinary Medicine, Veterinary Nursing, and Animal Welfare Science. For learners to progress, they must meet the entrance requirements for the chosen award. This may include minimum grade outcomes in the graded units, and/or successful completion of specific optional units, for example Cell Biology: Theory and Practice, Biochemistry: Theory and Practice, and Chemistry and Physics for Life Sciences.

6.2.2 Professional recognition

There is currently no professional recognition associated with this award.

6.3 Opportunities for e-assessment

This award is focused on developing practical skills, however there will be opportunities for e-assessment.

For e-learning, theory classes are suitable for e-learning. The method in which e-learning is delivered should be decided by the centre.

Where closed-book assessments are prescribed, e-assessment may be possible in some cases. This could be completed through the use of a proctoring system, or invigilation while performing the e-assessment. Open-book assessments can be completed as e-assessments or in the classroom.

Practical classes will not be able to be delivered online, as it would be detrimental to the learner achieving the requirements and to their education to do this. Practical assessment may not be performed online for the same reason.

6.4 Support materials

A list of existing Assessment Support Packs (ASPs) is available to view on SQA's website.

6.5 Resource requirements

- ◆ Access to a range of suitable equipment, including relevant Personal Protective Equipment (PPE).
- ◆ Access to a range of suitable analytical facilities, such as a laboratory with microscopes, a dissection laboratory, and a veterinary surveillance laboratory.
- ◆ Access to a working farm or farms, with a range of commercial enterprises (including housing and handling facilities) associated with rural animals.
- ◆ Access to a range of rural animals, kept in conditions that are reflective of commercial operations.
- ◆ A range of guest speakers, and opportunities for visits, such as to an abattoir, farms, and intensive agricultural units.
- ◆ Standard learner resources, including library, IT resources, careers advice, pastoral and academic support.

7. General information for centres

Equality and inclusion

The unit specifications making up this group award have been designed to ensure that there are no unnecessary barriers to learning or assessment. The individual needs of learners will be taken into account when planning learning experiences, selecting assessment methods or considering alternative evidence. Further advice can be found on our website www.sqa.org.uk/assessmentarrangements.

Internal and external verification

All assessments used within these qualifications 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* (www.sqa.org.uk/GuideToAssessment).

8. Glossary of terms

Embedded Core Skills is where the assessment evidence for the unit also includes full evidence for complete Core Skill or Core Skill components. A learner successfully completing the unit will be automatically certificated for the Core Skill. (This depends on the unit having been successfully audited and validated for Core Skills certification.)

Finish date: The end of a group award's lapsing period is known as the finish date. After the finish date, the group award will no longer be live and the following applies:

- ◆ candidates may not be entered for the group award.
- ◆ the group award will continue to exist only as an archive record on the Awards Processing System (APS).

Graded unit: Graded units assess learners' 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 learners to retain and adapt their skills and knowledge.

Lapsing date: When a group award is entered into its lapsing period, the following will apply:

- ◆ the group award will be deleted from the relevant catalogue.
- ◆ the group award specification will remain until the qualification reaches its finish date at which point it will be removed from SQA's website and archived.
- ◆ no new centres may be approved to offer the group award.
- ◆ centres should only enter candidates whom they expect to complete the group award during the defined lapsing period.

SQA credit value: The credit value allocated to a unit gives an indication of the contribution the unit makes to an SQA group award. An SQA credit value of 1 given to an SQA unit represents approximately 40 hours of programmed learning, teaching and assessment.

SCQF: The Scottish Credit and Qualification Framework (SCQF) provides the national common framework for describing all relevant programmes of learning and qualifications in Scotland. SCQF terminology is used throughout this guide to refer to credits and levels. For further information on the SCQF visit the SCQF website at www.scqf.org.uk.

SCQF credit points: SCQF credit points provide a means of describing and comparing the amount of learning that is required to complete a qualification at a given level of the Framework. One National Unit credit is equivalent to 6 SCQF credit points. One National Unit credit at Advanced Higher and one Higher National Unit credit (irrespective of level) is equivalent to 8 SCQF credit points.

SCQF levels: The level a qualification is assigned within the framework is an indication of how hard it is to achieve. The SCQF covers 12 levels of learning. HNCs and HNDs are available at SCQF levels 7 and 8 respectively. Higher National Units will normally be at levels 6–9 and graded units will be at level 7 and 8. National Qualification Group Awards are available at SCQF levels 2–6 and will normally be made up of National Units which are available from SCQF levels 2–7.

Subject unit: Subject units contain vocational/subject content and are designed to test a specific set of knowledge and skills.

Signposted Core Skills: Refers to opportunities to develop Core Skills arise in learning and teaching but are not automatically certificated.

9. General information for learners

This section will help you decide whether this is the qualification for you by explaining what the qualification is about, what you should know or be able to do before you start, what you will need to do during the qualification and opportunities for further learning and employment.

The HNC and HND in Rural Animal Health are designed to develop the knowledge and skills required to work in a range of roles in the production and rural animal health industries. Potential employment opportunities include becoming a large animal vet tech, agricultural consultants, meat hygiene inspectors, or an animal related para-professional, such as a cattle foot trimmer.

The HNC and HND also gives learners the opportunity to progress to degree level teaching in an animal or animal science related BSc. Examples of these include the degree course in Veterinary Medicine, Animal Welfare Science, Agriculture or Applied Animal Sciences.

The HNC will cover:

- ◆ Anatomy and Physiology of Rural Animal Species.
- ◆ Animal Behaviour.
- ◆ Animal Welfare and Ethics.
- ◆ Animal Handling and Husbandry.
- ◆ Animal Nutrition.

The HNC has an exam-based graded unit which will allow you to demonstrate your ability to integrate the knowledge you have developed across the subjects listed above.

In addition to the HNC, the HND will cover:

- ◆ Research and Academic Skills.
- ◆ Animal Parasitology.
- ◆ Animal Disease.
- ◆ Animal Housing.
- ◆ Biosecurity.
- ◆ Public Health.

The HND contains a project-based graded unit, that will allow you to apply the knowledge and skills you have developed to farm or small holding evaluation and report.

In addition to the content described above, there is a range of optional units both for HNC and HND level that will allow you to develop a more specialist knowledge and skill level.

Entry to the HNC is at the discretion of the delivering centre.