

Access to HE (Land Based Science) Diploma Guide

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Access to HE Diploma Background and Aims

The Access to Higher Education Diploma is a full Level 3 UK qualification. It is regulated by the Quality Assurance Agency for Higher Education (QAA) which licenses Access Validating Agencies (AVAs) to accredit and award the Access to Higher Education Diploma in the UK.

Access to Higher Education Diplomas enable students to acquire the knowledge and skills necessary to progress to higher education. They are key to widening participation from groups traditionally underrepresented at higher education institutions and are therefore aimed particularly, though not exclusively, at adults without traditional qualifications.

The aims of the Access to HE Diploma are to:

- prepare students who are returning to education for progression to Higher Education, further training in a related vocational or occupational area
- help students develop the skills and knowledge they need to achieve on their chosen HE course or career pathway
- familiarise students with the teaching and learning methodologies and assessment strategies found in Higher Education Institutions (HEIs)
- help students to gain confidence in their abilities, to review and monitor their own progress and to become independent students
- develop students' research, planning, analytical and evaluation skills
- enable students to make informed choices about future progression routes.

Diploma development

Skills and Education Group Access has worked with curriculum specialists and higher education colleagues to develop the Access to HE Diploma (Land Based Science). Every Diploma is validated by the AVA through a robust and rigorous peer panel process which then recommends approval to the AVA's Access to HE Committee. By taking into consideration the views of Further and Higher Education practitioners, the AVA ensures that the Diploma meets all QAA requirements and that it enables students to complete a planned, balanced and coherent programme of study, through which they have been able to acquire a subject knowledge and develop academic skills which are relevant to the intended progression route(s).

LC 50a: This QAA recognised Access to HE Diploma is validated for delivery within the UK by a provider with a main base in the UK (including the Channel Islands and the Isle of Man) only.

LC 50c: Only students with a UK address (including BFO) can be registered for an Access to HE Diploma.

Diploma Specification

The QAA Diploma Specification states that the Access to HE Diploma is a:

- unitised qualification, based on units of assessment which are structured in accordance with the Access to HE unit specification
- credit-based qualification, operated in accordance with the terms of the Access to HE credit specification
- graded qualification, as determined by the Access to HE Grading Scheme.

About this qualification

AVA Diploma Access to HE Diploma	Main Classification (Sector Subject Area)	Sub- Classification
(Land Based Science)	3 - Agriculture, Horticulture and Animal Care	3.4 - Environmental Conservation

This Diploma specification is valid from: 01/08/2025

Diploma revalidation date: 31/07/2029

The Access to HE Diploma in Land Based Studies provides students with a comprehensive understanding of biological, chemical, and environmental principles as they relate to land-based industries. This course is designed to prepare students for Higher Education leading to careers in agriculture, horticulture, animal care, and environmental conservation. Students will acquire key knowledge, subject-specific skills, and transferable skills essential for success in these areas.

A. Key Knowledge:

1. Biological and Ecological Principles:

- Understanding of animal cells, locomotion, and senses.
- Knowledge of animal behaviour, welfare, and physiology.
- Insight into the digestive and dietary needs of animals and introduction to plant biology.

2. Chemical Principles:

- Understanding of the arrangement and trends in the periodic table.
- Knowledge of hydrocarbons, alkenes, alkanes, molarity, and chemical change.
- Insight into cellular structure, activity, and atomic bonds and structures.

3. Environmental and Ecological Science:

- Understanding of ecology and environmental science.
- Knowledge of the ecological impact of land-based activities.
- Insight into conducting land-based projects and applying ecological principles.

B. Subject-Specific Skills:**1. Animal and Plant Science Practices:**

- Skills in analysing animal behaviour, welfare, and physiological data.
- Competence in understanding and applying principles of plant biology.
- Ability to conduct research projects related to land-based studies and animal care.

2. Chemical and Biological Analysis:

- Understanding and applying chemical principles, including molarity and chemical changes, to land-based contexts.
- Skills in using algebra and spreadsheets for data analysis in land-based research.
- Competence in cellular structure analysis and understanding biochemical processes in animals and plants.

3. Environmental and Project Management:

- Knowledge of conducting and managing land-based projects.
- Skills in applying ecological and environmental principles to land-based activities.
- Develop skills to know how to manage environmental impacts and promoting sustainability in land-based industries.

C. Transferable Skills:**1. Research and Academic Skills:**

- Development of strong research skills, including planning and conducting land-based research projects.
- Proficiency in academic writing, reading, and note-making.
- Understanding opportunities and tools for success in higher education, including the higher education toolkit.

2. Communication and Professional Skills:

- Improved presentation skills, information literacy skills, and reflective practice.
- Development of organisational and evaluative skills for study.
- Experience in effectively communicating complex scientific concepts in land-based contexts.

3. Technical and Analytical Proficiency:

- Enhanced ability to critically analyse biological, chemical, and environmental data.
- Skills in using statistical data and spreadsheets for research and analysis in land-based studies.
- Understanding the safe and ethical use of generative artificial intelligence in land-based research and industry contexts.

Intended Progression Routes

LC 61a and 61b: Access to HE Diplomas are intended to provide a preparation for study in UK higher education, but the award of a Diploma does not provide guaranteed entry to UK higher education programmes.

The following progression routes were agreed at the point of validation as being appropriate choices for students who achieve the Access to HE Diploma (Land Based Science), subject to the course entry requirements and application process.

- Conservation
- Environmental Science
- Agri-Business
- Agricultural Management
- Agriculture
- Ecology

It is essential that providers delivering this Diploma consult receiving HEIs themselves to ensure that suitable and relevant progression opportunities are sound. Evidence of HEI consultation and progression possibilities will be identified in the provider's Programme Submission Document.

Access to HE Diploma provider assessment strategy advice

QAA states that the Access to HE Diploma provides '*HE progression opportunities for adults who, because of social, educational or individual circumstances may have achieved few, if any, prior qualifications*'. They also state that, '*Students who are awarded the Diploma will have completed a planned, balanced and coherent programme of study, through which they have been able to acquire subject knowledge and develop academic skills which are relevant to the intended progression route(s)*'. Therefore all approved providers need to develop diploma assessment strategies which outline what assessment activities the students will undertake, how they will be used and why they have been chosen in order to achieve the learning aims:

1. **What** is the aim of the diploma assessment strategy?
2. **How** will it be achieved?
3. **Why** has this approach been chosen?

Assessment design:

Access to HE Diplomas should be assessed using innovative and contemporaneous methods, tailored to prepare students studying at Level 3 for study at Higher Education. Assessment design should be holistic, ensuring students can demonstrate attained knowledge, skills and behaviours in and across units and assessments should reflect those likely to be encountered on Higher Education courses in the same field of study. Specific assessment guidance should be provided for each unit to ensure consistency and fairness across all student achievements.

In addition, providers must ensure that assessment methods are chosen which afford students opportunities to demonstrate the requirements of the three Grading Standards; Knowledge and Understanding, Subject Specific Skills and Transferable Skills.

Assessment design should comply with the requirements of the QAA Grading Scheme (2024) and also be aligned to the principles of assessment: Validity, Authenticity, Reliability, Currency and Sufficiency (VARCS).

Assessment guidance specific to this diploma:

With specific regards to the 'Land Based Science Project' unit, tutors and assessors will be required to approve any primary research topics to ensure students abide by ethical requirements prior to undertaking the primary research. It is recommended that an ethics panel be convened to assess each primary research project and minute the discussion and decisions.

In addition, tutors and assessors should conduct risk and health and safety assessments when students are proposing to carrying out any form of primary research.

LC 50g: Tutor/Assessor qualifications and experience specifically required for delivery and assessment of this diploma:

Generally, and as a minimum, it is expected that provider staff teaching on the

Diploma have the required professional competence and skills necessary for the mode(s) of delivery to be used, and the level of subject expertise necessary to teach and assess the units available on the Diploma.

Rules of Combination

Where options are available within a single set of rules of combination, which allow alternative requirements for the achievement of a named Diploma, the alternatives permitted by the options are consistent, in terms of academic challenge and demand, and will require equivalent standards for achievement, whenever and wherever it is delivered.

Access to HE Diploma (Land Based Science)	
Credit Value of the Diploma:	60
Students must achieve all the units within the Diploma.	
<p>All Diplomas are 60 credits, irrespective of the place, subject or mode of study. Of the 60 credits 45 must be from graded units concerned with academic subject content, with the remaining 15 credits to be achieved from ungraded units.</p> <p>In addition, all students must study a minimum of ten 3 credit units and at least one 9 or 6 credit unit up to a maximum of 30 credits, which may or may not be graded.</p>	
Students can achieve up to a maximum of 30 credits at Level 3 through credit transfer and the award of credit through the recognition of prior learning.	
<p>Students undertaking any Access to HE Diploma, whatever their mode of study, must be:</p> <ul style="list-style-type: none"> a) registered and certificated for units to a maximum value of 60 credits b) registered for units to the value of 60 credits no later than 84 days from the start date of their Access to HE course, or before the student makes a formal application to a higher education course through UCAS or any other application process, whichever date occurs first. 	

Appendix 1 - Units of Assessment – Access to HE Diploma (Land Based Science)

For every unit included in the table, further information is included in the Unit Specifications, including learning outcomes and assessment criteria.

Grading Standards (Applied to all graded units)

1	Knowledge and Understanding of the Subject	KU
2	Subject Specific Skills	SS
3	Transferable Skills	TS

There are no mandatory units. Students must study a minimum of TEN, 3 credit units and at least one 6 or 9 credit unit up to a maximum of 30 credits.

Optional Units

Graded Units. Choose 45 credits from:

Unit Title	National Code	Level	CV
Chemistry of Pollution	RD1/3/AA/10G	Three	3
Arrangement and Trends in the Periodic Table	RD1/3/AA/11G	Three	3
Molarity and Chemical Change	RD1/3/AA/12G	Three	3
Hydrocarbons, Alkenes and Alkanes	RD4/3/AA/05G	Three	3
Ecology and Environmental Science	RH1/3/AA/01G	Three	3
Introduction to Plant Biology	RH2/3/AA/01G	Three	3
Genetic Inheritance	RH3/3/AA/09G	Three	3
Animal Cells, Locomotion and Senses	RH3/3/AA/17G	Three	3
Animal Physiology	RH7/3/AA/01G	Three	3
Land Based Science Project	RA1/3/AA/03G	Three	6
Cellular Structure and Processes	RH3/3/AA/19G	Three	6
The Digestive and Dietary Needs of Animals	SH2/3/AA/01G	Three	6
Animal Behaviour and Welfare	SP5/3/AA/01G	Three	6

Ungraded Units. Choose 15 credits from:

Unit Title	National Code	Level	CV
The Safe and Ethical Use of Generative Artificial Intelligence	CK5/3/AA/01U	Three	3
Using Spreadsheets	CP3/3/AA/01U	Three	3
Academic Writing Skills	HC7/3/AA/01U	Three	3
Reading and Note Making	HC7/3/AA/02U	Three	3
Using Algebra	RB3/3/AA/02U	Three	3
Atoms, Bonds and Structure	RD3/3/AA/01U	Three	3

There are no barred units in this Diploma.