

Qualification title**IAT Level 2 Diploma in Laboratory Animal Science and Technology**

All units are mandatory.

Qualification	Unit title	Credit Value	Ofqual No.	Guidance on assessment methodology
IAT Level 2 Diploma in Laboratory Animal Science and Technology	Laboratory animal housing and routines	12	F/602/5879	written assessment
	The production of Laboratory animals	8	T/602/5880	Unit test
	Laboratory animal nutrition	4	A/602/5881	written assessment
	Introduction to laboratory animal facility ethics	4	L/615/1145	Written assessment
	Introduction to laboratory animal facility legislation	8	Y/615/1147	Unit test
	Laboratory animal health and husbandry	12	J/602/5883	written assessment
	Laboratory animal biology	8	Y/602/6049	Written assessment
	Animal facility physical science	8	L/602/6050	Written assessment
	Numeracy for animal technologists	4	D/602/6053	Written assessment
	Communication for animal technologists	4	Y/602/6052	Written assessment
	Information Communication Technology for animal technologists	4	R/602/6051	Written assessment

TITLE	LABORATORY ANIMAL HOUSING AND ROUTINES		
OFQUAL NO:	F/602/5879	LEVEL	2
CREDIT VALUE	12 credits	Unit guided learning hours	60
Details of the relationship between the unit and relevant national occupational standards or other professional standards or curricula (if appropriate)	O29N AT 1 CU2, 3, 32, 33, 34, 38, 39		
Location of the unit within the subject/sector classification system	Animal Technology		
ADDITIONAL INFORMATION ABOUT THE UNIT			
Unit purpose and aim(s)	<p>The aim of this unit is to provide the learner with the ability to demonstrate the knowledge and understanding of the principles of laboratory animal husbandry and welfare.</p> <p>This unit is designed to introduce learners to the principles of laboratory animal husbandry and welfare. Learners should appreciate that animals bred for, and used in, scientific procedures must receive the highest standards of care and welfare and recognise how they can contribute to this in their daily tasks. Learners are encouraged to follow safe working practices in the animal unit.</p>		

	Learning Outcomes
	The learner will:
1	Know/understand suitable routines and husbandry practices for the maintenance and care for a range of laboratory animals.
2	Know/understand the consequences for the animal resulting from inappropriate environmental conditions.
3	Describe appropriate methods for identifying a range of animals.
4	Know relevant health and safety legislation and practices.

TITLE	THE PRODUCTION OF LABORATORY ANIMALS		
OFQUAL NO:	T/602/5880	LEVEL	2
CREDIT VALUE	8 credits	Unit guided learning hours	40
Details of the relationship between the unit and relevant national occupational standards or other professional standards or curricula (if appropriate)	O29N AT 4 CU2,36		
Location of the unit within the subject/sector classification system	Animal Technology		
ADDITIONAL INFORMATION ABOUT THE UNIT			
Unit purpose and aim(s)	<p>The aim of this unit is to provide the learner with the ability to demonstrate the knowledge and understanding of methods used in the production of animals for scientific purposes.</p> <p>This unit is designed to give learners an overview of the production of animals for scientific purposes.</p>		

	Learning Outcomes The learner will:
1	Know suitable methods for producing animals for a range of scientific procedures.
2	Know relevant health and safety legislation and practices.

TITLE	LABORATORY ANIMAL NUTRITION		
OFQUAL NO:	A/602/5881	LEVEL	2
CREDIT VALUE	2	Unit guided learning hours	4 credits
Details of the relationship between the unit and relevant national occupational standards or other professional standards or curricula (if appropriate)	O29N CU2, 33, 34,35		
Location of the unit within the subject/sector classification system	Animal Technology		
ADDITIONAL INFORMATION ABOUT THE UNIT			
Unit purpose and aim(s)	<p>The aim of this unit is to provide the learner with the ability to demonstrate the knowledge and understanding of methods used for ensuring animals receive a balanced diet.</p>		

	<p>Learning Outcomes</p> <p>The learner will:</p>
1	Know how water and a balanced diet are provided for laboratory animals.
2	Know relevant health and safety legislation and practices.

TITLE	INTRODUCTION TO LABORTORY ANIMAL SCIENCE ETHICS		
OFQUAL NO:	L/615/1145	LEVEL	2
CREDIT VALUE	4 credits	Unit guided learning hours	20
Details of the relationship between the unit and relevant national occupational standards or other professional standards or curricula (if appropriate)	O29N AT 6 CU2,36		
Location of the unit within the subject/sector classification system	Animal Technology		
ADDITIONAL INFORMATION ABOUT THE UNIT			
Unit purpose and aim(s)	<p>The aim of this unit is to provide the learner with the ability to demonstrate the knowledge and understanding of the <i>Ethical considerations</i> of using animals for scientific purposes.</p> <p>The unit introduces ethical principles applied to animals used in research.</p>		

	Learning Outcomes The learner will:
1	Know how the concerns over the use of laboratory animals are minimised.
2	Understand that there is a broad range of ethical, welfare and scientific perspectives on the use of animals in scientific procedures, and that thinking on all of these matters evolves over time and is influenced by culture and context.

TITLE	INTRODUCTION TO LABORATORY ANIMAL FACILITY LEGISLATION		
OFQUAL NO:	Y/615/1147	LEVEL	2
CREDIT VALUE	8 credits	Unit guided learning hours	60
Details of the relationship between the unit and relevant national occupational standards or other professional standards or curricula (if appropriate)	O29N AT 6 CU2,36		
Location of the unit within the subject/sector classification system	Animal Technology		
ADDITIONAL INFORMATION ABOUT THE UNIT			
Unit purpose and aim(s)	<p>The aim of this unit is to provide the learner with the ability to demonstrate the knowledge and understanding of the legislation controlling the use of animals for scientific purposes.</p> <p>The unit introduces principles applied to animals used in research, describes appropriate methods of euthanasia and specifically introduces health and safety legislation and practices.</p>		

	Learning Outcomes The learner will:
1	Identify the broad provisions of the legislation controlling the use of research animals.
2	Know appropriate methods of euthanasia.

TITLE	LABORATORY ANIMAL HEALTH AND HUSBANDRY		
OFQUAL NO:	J/602/5883	LEVEL	2
CREDIT VALUE	12 credits	Unit guided learning hours	60
Details of the relationship between the unit and relevant national occupational standards or other professional standards or curricula (if appropriate)	O29N AT3, 4, 9		
Location of the unit within the subject/sector classification system	Animal Technology		
ADDITIONAL INFORMATION ABOUT THE UNIT			
Unit purpose and aim(s)	<p>The aim of this unit is to provide the learner with the ability to demonstrate the knowledge and understanding of the theory supporting good animal husbandry practice.</p> <p>This unit is designed to give learners the opportunity to develop their knowledge of the theory supporting good animal husbandry practice.</p>		

	Learning Outcomes
	The learner will:
1	Know methods available to safely handle and sex a laboratory animal.
2	Know/understand methods to estimate the age of a named species of laboratory animal with reasonable accuracy.
3	Know/understand suitable procedures for the safe handling and restraint of a named species for common scientific procedures.
4	Identify signs of ill health in a named species and describe suitable remedial actions.
5	Know relevant health and safety legislation and practices.

TITLE	LABORATORY ANIMAL BIOLOGY		
OFQUAL NO:	Y/602/6049	LEVEL	2
CREDIT VALUE	8 credits	Unit guided learning hours	40
Details of the relationship between the unit and relevant national occupational standards or other professional standards or curricula (if appropriate)	N/A		
Location of the unit within the subject/sector classification system	Animal Technology		
ADDITIONAL INFORMATION ABOUT THE UNIT			
Unit purpose and aim(s)	The aim of this unit is to provide the learner with the underpinning knowledge and understanding of the biological principles supporting good animal husbandry practice.		

	Learning Outcomes
	The learner will:
1	Define the conditions necessary for life.
2	Describe the structure, growth and organisation of cells.
3	Explain how organ systems work together to make a co-ordinated response to keep an animal healthy.
4	List the anatomical and physiological features of an animal.
5	Know relevant health and safety legislation and practices.

TITLE	ANIMAL FACILITY PHYSICAL SCIENCE		
OFQUAL NO:	L/602/6050	LEVEL	2
CREDIT VALUE	8 credits	Unit guided learning hours	40
Details of the relationship between the unit and relevant national occupational standards or other professional standards or curricula (if appropriate)	N/A		
Location of the unit within the subject/sector classification system	Animal Technology		
ADDITIONAL INFORMATION ABOUT THE UNIT			
Unit purpose and aim(s)	The aim of this unit is to provide the learner with the underpinning knowledge and understanding of the scientific principles supporting good animal husbandry practice.		

	Learning Outcomes
	The learner will:
1	Explain the principles and practice of recording and comparing physical measurements.
2	Describe the effect energy has on molecules.
3	Discuss, with examples, the transfer of heat between materials found in the animal facility.
4	Describe, using scientific theory, a range of chemical reactions found in the animal facility.
5	Know relevant health and safety legislation and practices.

TITLE	NUMERACY FOR ANIMAL TECHNOLOGISTS		
OFQUAL NO:	D/602/6053	LEVEL	2
CREDIT VALUE	4 credits	Unit guided learning hours	20
Details of the relationship between the unit and relevant national occupational standards or other professional standards or curricula (if appropriate)	N/A		
Location of the unit within the subject/sector classification system	Animal Technology		
ADDITIONAL INFORMATION ABOUT THE UNIT			
Unit purpose and aim(s)	The aim of this unit is to provide the learner with the ability to demonstrate the knowledge and skills required to work effectively in the animal facility.		

	Learning Outcomes
	The learner will:
1	Accurately carry out a range of calculations required in the animal facility.
2	Know relevant health and safety legislation and practices.

TITLE	COMMUNICATION FOR ANIMAL TECHNOLOGISTS		
OFQUAL NO:	Y/602/6052	LEVEL	2
CREDIT VALUE	4 credits	Unit guided learning hours	20
Details of the relationship between the unit and relevant national occupational standards or other professional standards or curricula (if appropriate)	N/A		
Location of the unit within the subject/sector classification system	Animal Technology		
ADDITIONAL INFORMATION ABOUT THE UNIT			
Unit purpose and aim(s)	The aim of this unit is to provide the learner with the opportunity to demonstrate their ability to communicate effectively.		

	Learning Outcomes
	The learner will:
1	Demonstrate effective communication skills under a range of conditions.

TITLE	INFORMATION COMMUNICATION TECHNOLOGY FOR ANIMAL TECHNOLOGISTS		
OFQUAL NO:	R/602/6051	LEVEL	2
CREDIT VALUE	4 credits	Unit guided learning hours	20
Details of the relationship between the unit and relevant national occupational standards or other professional standards or curricula (if appropriate)	N/A		
Location of the unit within the subject/sector classification system	Animal Technology		
ADDITIONAL INFORMATION ABOUT THE UNIT			
Unit purpose and aim(s)	The aim of this unit is to provide the learner with the opportunity to demonstrate their ability to utilise ICT effectively.		

	Learning Outcomes
	The learner will:
1	Produce material using word-processing software
2	Know relevant health and safety legislation and practices. Produce material using spreadsheet software.