



ETCAL Level 3 NVQ Diploma in Laboratory and Associated  
Technical Activities  
601/6960/6  
Structure

## Qualification aim

Level 3 NVQ Diploma in Laboratory and Associated Technical Activities is designed for those employees who undertake and oversee technical activities within a laboratory in either an educational or industrial environment and wish to have formal recognition of their skills, competence and knowledge. It is also designed for those learners registered on the Laboratory and Science Technicians apprenticeship framework.

## Assessment

In order to achieve this qualification a learner must complete all units as mandatory. The assessment criteria determine the standard required to achieve each unit and allow for a variety of assessment methods to be used as appropriate to the environment the qualification is delivered in. There is no examined assessment element in this qualification.

## Achievement

Education Science Pathway - Learners must achieve a minimum of 48 credits to gain the Education Science qualification. 10 credits must be achieved by completing the 2 common mandatory units, 6 credits achieved by completing 1 pathway mandatory unit and the remaining 32 credits by completing 5 units from the optional groups, 3 of which must be taken from Group A.

Industrial Science Pathway - Learners must achieve a minimum of 60 credits to gain the Industrial Science qualification. 10 credits must be achieved by completing the 2 common mandatory units, 30 credits achieved by completing the 3 pathway mandatory units and the remaining 20 credits by completing 3 units from the optional groups, 2 of which must be taken from Group A.

<b>Qualification Number</b>		601/6960/6
<b>Qualification Framework</b>		RQF
<b>Title</b>		ETCAL Level 3 NVQ Diploma in Laboratory and Associated Technical Activities
<b>Qualification Level</b>		Level 3
<b>Total Qualification Time</b>		480 TQT
<b>Guided Learning Hours</b>		300 GLH
<b>Qualification Credit Value</b>		48/60 Credits
<b>Qualification Grading Structure</b>		Pass / Fail

Unit Title	Mandatory/Optional	GLH	TQT	Credit Value	Grading
<b>Mandatory Units - Both units must be completed for both pathways</b>					
Maintain health and safety in a scientific or technical workplace	M	35		5	Pass/Fail
Maintain effective and efficient working relationships for scientific or technical activities	M	25		5	Pass/Fail
<b>Education Science Pathway Mandatory Unit – must be completed</b>					
Evaluate and provide scientific or technical assistance for learning activities	M	43		6	Pass/Fail
<b>Education Science Pathway – Option Group A – 3 units must be achieved from this group</b>					
Diagnose faults, repair and maintain scientific or technical equipment for workplace activities	O	43		8	Pass/Fail
Provide training for scientific or technical activities in the workplace	O	52		8	Pass/Fail
Demonstrate scientific or technical methods, techniques and skills to others in the workplace	O	56		8	Pass/Fail
Improve the quality and reliability of scientific or technical activities in the workplace	O	82		10	Pass/Fail
Test and evaluate new scientific or technical methods and equipment for learning activities	O	83		12	Pass/Fail
Provide technical support for computer application software and equipment for learning activities	O	64		10	Pass/Fail

<b>Education Science Pathway – Option Group B – The learner may choose two units from this group</b>					
Maintain and control stocks of all resources, equipment and consumables for scientific or technical activities	O	23		4	Pass/Fail
Make presentations for scientific or technical activities in the workplace	O	36		6	Pass/Fail
Assess their own scientific or technical knowledge and skills for workplace activities	O	23		4	Pass/Fail
Provide scientific or technical leadership for a workplace team	O	83		16	Pass/Fail
<b>Industrial Science Pathway Mandatory Units – all 3 must be completed</b>					
Carry out scientific or technical testing operations	O	57		12	Pass/Fail
Access and communicate scientific or technical information to authorised personnel	O	39		6	Pass/Fail
Provide technical advice and guidance for scientific or technical activities	O	57		12	Pass/Fail
<b>Industrial Science Pathway – Option Group A – 2 units must be achieved from this group</b>					
Plan scientific or technical sampling and testing activities	O	41		8	Pass/Fail
Carry out complex scientific or technical testing operations	O	57		12	Pass/Fail
Carrying out complex scientific or technical sampling operations	O	41		8	Pass/Fail
Carry out scientific or technical investigations	O	52		9	Pass/Fail
Carry out small scale processing	O	45		8	Pass/Fail
Diagnose faults, repair and maintain scientific or technical equipment for workplace activities	O	43		8	Pass/Fail
Measuring, weighing and preparing compounds and solutions for laboratory use	O	66		16	Pass/Fail
<b>Industrial Science Pathway – Option Group B – The learner may choose one unit from this group</b>					
Maintain and control stocks of all resources, equipment and consumables for scientific or technical activities	O	23		4	Pass/Fail
Make presentations for scientific or technical activities in the workplace	O	36		6	Pass/Fail

Assess their own scientific or technical knowledge and skills for workplace activities	0	23		4	Pass/Fail
Provide training for scientific or technical activities in the workplace	0	52		8	Pass/Fail
Provide scientific or technical leadership for a workplace team	0	83		16	Pass/Fail
Following aseptic procedures in the laboratory environment	0	51		9	Pass/Fail