



Laboratory and Associated Technical Activities (QCF)

These QCF qualifications will provide recognition of the skills, competence and knowledge of individuals who work in a laboratory in an educational or industrial environment.

Document detail:

Level 2 NVQ Certificate in Laboratory and Associated Technical Activities (QCF)

- Education Science - 31 Credits
- Industrial Science - 32 Credits

Level 3 NVQ Diploma in Laboratory and Associated Technical Activities (QCF)

- Education Science - 48 Credits
- Industrial Science - 60 Credits

Level 4 NVQ Diploma in Laboratory and Associated Technical Activities (QCF) - 54 Credits

Who are the Qualifications for:

The Level 2 qualification provides recognition of the skills and knowledge of individuals who work in a laboratory in an educational or industrial environment. It covers health and safety procedures; maintaining efficient and effective working relationships; and using information recording systems for scientific or technical activities. It contains two Pathways: Education Science and Industrial Science.

The Level 3 qualification provides recognition of the skills and knowledge of individuals who work in a laboratory in an educational or industrial environment. It covers maintaining health and safety; and maintaining efficient and effective working relationships for scientific or technical activities. It contains two Pathways: Education Science and Industrial Science.

The Level 4 qualification provides recognition of the skills and knowledge of individuals who work in a laboratory environment and are involved with scientific or technical activities. It covers developing and maintaining a healthy and safe work environment, maintaining effective working relationships, assuring quality processes and procedures and carrying out risk assessments.

NVQ Certificate in Laboratory and Associated Technical Activities (QCF)	Level 2
	501/1868/7
Last Registration Date	31 st May 2015
Last Certification Date	31 st May 2017

This qualification contains the following Pathways:

- Education Science Pathway: 6 Units totalling a minimum of 31 Credits are required.
- Industrial Science Pathway: 6 Units totalling a minimum of 32 Credits are required.

For both Pathways learners must complete 3 Common Mandatory Units, and 3 Optional Units, 2 of which must be taken from Group A.

Mandatory Units

- LAT2-001 Follow health and safety procedures for scientific or technical activities - 5 Credits
 - LAT2-003 Use information recordings systems for scientific or technical activities - 6 Credits
 - LAT3-002 Maintain effective and efficient working relationships for scientific or technical activities - 5 Credits
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Education Science - Option Group A

If learners choose the Education Science Pathway they must achieve 3 Optional units; 2 Optional Units must be taken from Group A.

- LAT2-004 Carry out routine maintenance, cleaning and checking of scientific or technical equipment - 6 Credits
- LAT2-008 Prepare resources and equipment for scientific or technical learning activities - 6 Credits
- LAT2-009 Clean and tidy the workplace after scientific or technical learning activities - 5 Credits
- LAT2-010 Provide scientific or technical support for learning activities - 6 Credits

Education Science - Option Group B

If learners choose the Education Science Pathway they must achieve 3 Optional units; 2 Optional Units must be taken from Group A.

- LAT2-005 Maintain stocks of resources, equipment and consumables for scientific or technical use - 4 Credits
 - LAT2-006 Prepare compounds and solutions for scientific or technical use - 13 Credits
 - LAT2-011 Prepare new scientific or technical methods, resources and equipment for learning activities - 12 Credits
 - LAT3-020 Demonstrate scientific or technical methods, techniques and skills to others in the workplace - 8 Credits
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Industrial Science - Option Group A

If learners choose the Industrial Science Pathway they must achieve 3 Optional units; 2 Optional Units must be taken from Group A.

- LAT2-012 Carry out simple scientific or technical tests using manual equipment - 7 Credits
- LAT2-013 Carry out simple scientific or technical tests using automated equipment - 10 Credits
- LAT2-014 Prepare scientific or technical samples for testing activities - 8 Credits
- LAT2-015 Carry out sampling operations for scientific or technical tests - 5 Credits

Industrial Science - Option Group B

If learners choose the Industrial Science Pathway they must achieve 3 Optional units; 2 Optional Units must be taken from Group A.

- LAT2-004 Carry out routine maintenance, cleaning and checking of scientific or technical equipment - 6 Credits
 - LAT2-005 Maintain stocks of resources, equipment and consumables for scientific or technical use - 4 Credits
 - LAT2-006 Prepare compounds and solutions for scientific or technical use - 13 Credits
 - LSC2-020 Following aseptic procedures in the laboratory environment - 9 Credits
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NVQ Diploma in Laboratory and Associated Technical Activities (QCF)	Level 3 501/1869/9
Last Registration Date	31 st May 2015
Last Certification Date	31 st May 2018

This qualification contains the following Pathways:

- **Education Science Pathway:** 8 Units totalling a minimum of 48 Credits are required.
- **Industrial Science Pathway:** 8 Units totalling a minimum of 60 Credits are required.

For the Education Science Pathway learners must achieve a minimum of 48 Credits by completing 2 Common Mandatory Units, 1 Pathway specific Mandatory Unit and 5 Optional Units, 3 of which must be taken from Group A.

For the Industrial Science Pathway learners must achieve a minimum of 60 Credits by completing 2 Common Mandatory Units, 3 Pathway specific Mandatory Units and 3 Optional Units, 2 of which must be taken from the Group A.

Mandatory Units

- LAT3-001 Maintain health and safety in a scientific or technical workplace - 5 Credits
 LAT3-002 Maintain effective and efficient working relationships for scientific or technical activities - 5 Credits
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Education Science - Mandatory Unit

- LAT3-019 Evaluate and provide scientific or technical assistance for learning activities - 6 Credits

Education Science - Option Group A

If learners choose the Education Science Pathway they must achieve 5 Optional units; 3 Optional Units must be taken from Group A.

- LAT3-011 Diagnose faults, repair and maintain scientific or technical equipment for workplace activities - 8 Credits
 LAT3-016 Provide training for scientific or technical activities in the workplace - 8 Credits
 LAT3-020 Demonstrate scientific or technical methods, techniques and skills to others in the workplace - 8 Credits
 LAT3-021 Improve the quality and reliability of scientific or technical activities in the workplace - 10 Credits
 LAT3-022 Test and evaluate new scientific or technical methods and equipment for learning activities - 12 Credits
 LAT3-023 Provide technical support for computer application software and equipment for learning activities - 10 Credits

Education Science - Option Group B

If learners choose the Education Science Pathway they must achieve 5 Optional units; 3 Optional Units must be taken from Group A.

- LAT3-013 Maintain and control stocks of all resources, equipment and consumables for scientific or technical activities - 4 Credits
 LAT3-014 Make presentations for scientific or technical activities in the workplace - 6 Credits
 LAT3-015 Assess their own scientific or technical knowledge and skills for workplace activities - 4 Credits
 LAT3-017 Provide scientific or technical leadership for a workplace team - 16 Credits
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Industrial Science - Mandatory Units

- LAT3-003 Carry out scientific or technical testing operations - 12 Credits
- LAT3-004 Access and communicate scientific or technical information to authorised personnel - 6 Credits
- LAT3-005 Provide technical advice and guidance for scientific or technical activities - 12 Credits

Industrial Science - Option Group A

If learners choose the Industrial Science Pathway they must achieve 3 Optional units; 2 Optional Units must be taken from Group A.

- LAT3-006 Plan scientific or technical sampling and testing activities - 8 Credits
- LAT3-007 Carry out complex scientific or technical testing operations - 12 Credits
- LAT3-008 Carrying out complex scientific or technical sampling operations - 8 Credits
- LAT3-009 Carry out scientific or technical investigations - 9 Credits
- LAT3-010 Carry out small scale processing - 8 Credits
- LAT3-011 Diagnose faults, repair and maintain scientific or technical equipment for workplace activities - 8 Credits
- LSC3-015 Measuring, weighing and preparing compounds and solutions for laboratory use - 16 Credits

Industrial Science - Option Group B

If learners choose the Industrial Science Pathway they must achieve 3 Optional units; 2 Optional Units must be taken from Group A.

- LAT3-013 Maintain and control stocks of all resources, equipment and consumables for scientific or technical activities - 4 Credits
- LAT3-014 Make presentations for scientific or technical activities in the workplace - 6 Credits
- LAT3-015 Assess their own scientific or technical knowledge and skills for workplace activities - 4 Credits
- LAT3-016 Provide training for scientific or technical activities in the workplace - 8 Credits
- LAT3-017 Provide scientific or technical leadership for a workplace team - 16 Credits
- LSC2-020 Following aseptic procedures in the laboratory environment - 9 Credits

NVQ Diploma in Laboratory and Associated Technical Activities (QCF)	Level 4 501/2291/5
Last Registration Date	31 st August 2015
Last Certification Date	31 st August 2018

For the Diploma: 8 Units totalling a minimum of 54 Credits are required.

Mandatory Units

- LAT3-002 Maintain effective and efficient working relationships for scientific or technical activities - 5 Credits
 - LAT4-001 Develop and maintain a healthy and safe work environment for scientific or technical activities - 8 Credits
 - LAT4-003 Assure quality processes and procedures for scientific or technical activities - 8 Credits
 - LAT4-004 Carry out risk assessments on scientific or technical activity - 8 Credits
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Optional Units - Group A

Learners must achieve 4 Optional Units; 2 must be taken from Group A.

- LAT4-005 Plan and run scientific or technical projects for workplace activities - 12 Credits
- LAT4-009 Develop and provide training for scientific or technical activities in the workplace - 8 Credits
- LAT4-010 Plan and conduct scientific or technical investigations - 12 Credits
- LAT4-011 Plan and monitor small scale processing activities - 9 Credits
- LAT4-013 Manage and monitor the work of scientific or technical teams - 10 Credits

Optional Units - Group B

Learners must achieve 4 Optional Units; 2 must be taken from Group A.

- LAT3-015 Assess their own scientific or technical knowledge and skills for workplace activities - 4 Credits
 - LAT4-006 Write scientific or technical reports for workplace activities - 4 Credits
 - LAT4-007 Manage scientific or technical business processes for workplace activities - 12 Credits
 - LAT4-008 Prepare and manage budgets for scientific or technical workplace activities - 8 Credits
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