



Laboratory Science (QCF)

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

Document detail:

Level 2 NVQ Diploma in Laboratory Science (QCF)

- Clinical Analysis - 37 Credits
- Compound Analysis - 50 Credits

Level 3 NVQ Diploma in Laboratory Science (QCF) - 71 Credits

Who are the Qualifications for:

The Level 2 qualification provides recognition of the skills and knowledge of individuals who work in a laboratory. It covers health and safety; effective working relationships; dealing with laboratory specimens/samples and communicating information. It contains two Pathways: Clinical Analysis and Compound Analysis.

The Level 3 qualification provides recognition of the skills and knowledge of individuals working in a laboratory. It covers health and safety; effective working relationships; providing leadership for a laboratory team; dealing with compounds and solutions; using and communication information.

NVQ Diploma in Laboratory Science (QCF)	Level 2
	501/1207/7
Last Registration Date	31 st May 2015
Last Certification Date	31 st May 2017

This qualification contains the following Pathways:

- **Clinical Analysis Pathway:** 7 Units totalling a minimum of 37 Credits are required.
- **Compound Analysis Pathway:** 7 Units totalling a minimum of 50 Credits are required.

For both Pathway learners must complete 4 Common Mandatory Units, 1 Pathway specific Mandatory Unit and 2 Optional Units, 1 of which must be taken from Group 1.

Mandatory Units

- LSC2-001 Maintaining health and safety in a laboratory environment - 5 Credits
 - LSC2-002 Maintaining effective and efficient working relationships in the laboratory - 5 Credits
 - LSC2-003 Receiving, sorting, transporting and storing laboratory specimens/samples under supervision - 9 Credits
 - LSC2-004 Communicating laboratory information to authorised personnel under supervision - 6 Credits
-

Clinical Analysis - Mandatory Unit

- LSC2-005 Accessing, registering and inputting patient data in a LIMS under supervision - 6 Credits

Clinical Analysis - Option Group 1

If learners choose the Clinical Analysis Pathway they must achieve 2 Optional units; 1 Optional Unit must be taken from Group 1.

- LSC2-006 Assisting with the preparation of biopsy specimens for laboratory investigations - 3 Credits
- LSC2-007 Assisting with the preparation of microbiological specimens/samples for laboratory investigations - 11 Credits
- LSC2-008 Assisting with the processing of liquid clinical specimens using automated laboratory equipment - 10 Credits
- LSC2-009 Assisting with the processing of liquid clinical specimens using manual laboratory techniques - 6 Credits
- LSC2-017 Assisting with the processing of diagnostic cytology specimens in the laboratory - 3 Credits

Clinical Analysis - Option Group 2

If learners choose the Clinical Analysis Pathway they must achieve 2 Optional units; 1 Optional Unit must be taken from Group 1.

- LSC2-010 Assisting with the maintenance of stocks of reagents and consumables for laboratory use - 3 Credits
 - LSC2-011 Drawing blood samples from patients for laboratory investigations - 3 Credits
 - LSC2-018 Assisting with the routine maintenance, cleaning, disinfecting and calibration of laboratory equipment - 6 Credits
-

Compound Analysis - Mandatory Unit

LSC3-015 Measuring, weighing and preparing compounds and solutions for laboratory use - 16 Credits

Compound Analysis - Option Group 1

If learners choose the Compound Analysis Pathway they must achieve 2 Optional units; 1 Optional Unit must be taken from Group 1.

LSC2-007 Assisting with the preparation of microbiological specimens/samples for laboratory investigations - 11 Credits

LSC2-012 Assisting with the processing of liquid compounds/samples using automated laboratory equipment - 10 Credits

LSC2-013 Assisting with the processing of liquid compounds/samples using manual laboratory techniques - 6 Credits

Compound Analysis - Option Group 2

If learners choose the Compound Analysis Pathway they must achieve 2 Optional units; 1 Optional Unit must be taken from Group 1.

LSC2-010 Assisting with the maintenance of stocks of reagents and consumables for laboratory use - 3 Credits

LSC2-014 Accessing, registering and inputting batch/ sample data in a LIMS under supervision - 6 Credits

LSC2-015 Assisting with the preparation of solutions for laboratory use - 9 Credits

LSC2-017 Assisting with the processing of diagnostic cytology specimens in the laboratory - 3 Credits

LSC2-018 Assisting with the routine maintenance, cleaning, disinfecting and calibration of laboratory equipment - 6 Credits

LSC2-019 Preparing culture media and solutions for laboratory use - 3 Credits

LSC2-020 Following aseptic procedures in the laboratory environment - 9 Credits

NVQ Diploma in Laboratory Science (QCF)	Level 3	71 Credits
	501/1293/4	
Last Registration Date	31 st May 2015	
Last Certification Date	31 st May 2018	

For the Diploma: 9 Units totalling a minimum of 71 Credits are required.

Mandatory Units

- LSC2-001 Maintaining health and safety in a laboratory environment - 5 Credits
 - LSC2-002 Maintaining effective and efficient working relationships in the laboratory - 5 Credits
 - LSC3-003 Providing leadership for a laboratory team - 16 Credits
 - LSC3-015 Measuring, weighing and preparing compounds and solutions for laboratory use - 16 Credits
 - LSC3-022 Using and communicating laboratory information to authorised personnel - 6 Credits
-

Optional Units - Group 1

Learners must achieve 4 Optional Units; 3 of which must be taken from Option Group 2.

- LSC3-004 Encouraging problem solving and innovation in a laboratory team - 16 Credits
- LSC3-005 Managing budgets for laboratory projects - 8 Credits
- LSC4-010 Using statistical process control (SPC) for laboratory measurement processes - 8 Credits

Optional Units - Group 2

Learners must achieve 4 Optional Units; 3 of which must be taken from this Option Group.

- LSC3-006 Analysing laboratory samples using High Performance Liquid Chromatography (HPLC) - 16 Credits
 - LSC3-007 Analysing laboratory samples using Gas Chromatography (GC) - 8 Credits
 - LSC3-008 Analysing laboratory samples using Gas Chromatography-Mass Spectrometry (GCMS) - 12 Credits
 - LSC3-009 Analysing laboratory samples using Gas Chromatography-Thermal Conductivity (GCTC) - 8 Credits
 - LSC3-010 Analysing DNA/RNA samples using Polymerase Chain Reaction (PCR) and Quantitative PCR (QPCR) - 8 Credits
 - LSC3-011 Amplifying DNA samples using Polymerase Chain Reaction (PCR) - 8 Credits
 - LSC3-012 Maintaining cell lines for laboratory activities using cryogenic storage - 6 Credits
 - LSC3-013 Culturing/fermenting cells for laboratory activities using controlled fed batch or continuous culture fermentation - 12 Credits
 - LSC3-014 Maintaining cell lines for laboratory activities using sub-culture - 8 Credits
 - LSC3-016 Separating samples for laboratory activities using centrifugation - 3 Credits
 - LSC3-017 Analysing laboratory samples using light microscopy - 6 Credits
 - LSC3-018 Analysing laboratory samples using ultraviolet-visible spectrophotometer (UV-Vis) - 8 Credits
 - LSC3-019 Analysing laboratory samples using Circular Dichroism (CD) - 16 Credits
 - LSC3-020 Analysing laboratory samples using Fourier-transform infrared (FT-IR) spectroscopy - 8 Credits
 - LSC3-021 Analysing laboratory samples using Chromatography - 9 Credits
 - LSC3-023 Analysing DNA using gel electrophoresis - 8 Credits
-