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| **Core Skills Signposting** |  |
| **Sector** | **Laboratory Science** |
| **Qualification Title(s)** | **SVQ in Laboratory Skills (Life Science) at SCQF level 7** |
| **Developed by** | **Cogent** |
| **Approved by ACG** | **23 May 2018** |
| **Version**  | **2** |

**Laboratory Skills (Life Science) – SCQF Level 7**

 **Core Skills Sign-Posting**

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|  | **Unit** |  | **Core Skills**  | **Level** |  |  |
|  | **Mandatory** | **Communication** | **Numeracy** | **Problem Solving** | **Working with others** | **ICT** |
| COGLS301 | Maintain health and safety procedures in life sciences and related industries | SCQF Level 4 | SCQF Level 5 | SCQF Level 5 | SCQF Level 5 | SCQF Level 5 |
| COGLS202 | Maintain effective and efficient working relationships in life sciences and related industries | SCQF Level 4 | SCQF Level 4 | SCQF Level 5 | SCQF Level 5 | SCQF Level 4 |
|  | Education PathwayConsists of 8 units, 2 mandatory, Group A Optional, take a minimum of 4 units from the following: |  |  |  |  |  |
| COGLS313 | Provide technical support for computer application software and equipment in life sciences and related industries | SCQF Level 5 | SCQF Level 5 | SCQF Level 5 | SCQF Level 5 | SCQF Level 5 |
| COGLS206 | Preparing reagents in life sciences and related industries | SCQF Level 5 | SCQF Level 5 | SCQF Level 5 | SCQF Level 5 | SCQF Level 5 |
| COGLS207 | Demonstrate techniques and skills in life sciences and related industries | SCQF Level 5 | SCQF Level 5 | SCQF Level 5 | SCQF Level 5 | SCQF Level 5 |
| COGLS308 | Diagnose faults, repair and maintain equipment in life sciences and related industries | SCQF Level 5 | SCQF Level 5 | SCQF Level 5 | SCQF Level 5 | SCQF Level 5 |
| COGLS305 | Provide technical advice and guidance in life sciences and related industries | SCQF Level 5 | SCQF Level 5 | SCQF Level 5 | SCQF Level 5 | SCQF Level 5 |
| COGLS211 | Prepare new methods, resources and equipment for learning activities in life sciences and related industries  | SCQF Level 5 | SCQF Level 4 | SCQF Level 5 | SCQF Level 4 | SCQF Level 5 |
| COGLS312 | Improve the quality and reliability of activities in life sciences and related industries | SCQF Level 6 | SCQF Level 4 | SCQF Level 6 | SCQF Level 6 | SCQF Level 5 |
| COGLS321 | Carry out risk assessments in life sciences and related industries | SCQF Level 5 | SCQF Level 5 | SCQF Level 5 | SCQF Level 5 | SCQF Level 5 |
| COGLS323 | Write reports for activities in life sciences and related industries | SCQF Level 5 | SCQF Level 4 | SCQF Level 5 | SCQF Level 5 | SCQF Level 5 |
|  | Group B Optional, take a minimum of 1 unit from the following: |  |  |  |  |  |
| COGLS210 | Provide support for learning activities in life sciences and related industries | SCQF Level 5 | SCQF Level 4 | SCQF Level 4 | SCQF Level 5 | SCQF Level 4 |
| COGLS205 | Maintain stocks of resources, equipment and consumables in life sciences and related industries | SCQF Level 4 | SCQF Level 5 | SCQF Level 5 | SCQF Level 4 | SCQF Level 4 |
| COGLS208 | Prepare for and clearing up after a learning activity in a class room or a life sciences and related industries area | SCQF Level 4 | SCQF Level 3 | SCQF Level 3 | SCQF Level 4 | SCQF Level 3 |
| COGLS316 | Amplifying and analysing DNA or RNA samples using PCR or qPCR in life sciences and related industries | SCQF Level 5 | SCQF Level 5 | SCQF Level 5 | SCQF Level 4 | SCQF Level 5 |
| COGLS317 | Analysing samples using light microscopy in life sciences and related industries | SCQF Level 5 | SCQF Level 5 | SCQF Level 4 | SCQF Level 4 | SCQF Level 4 |
| COGLS318 | Maintaining cell lines in life sciences and related industries | SCQF Level 5 | SCQF Level 5 | SCQF Level 5 | SCQF Level 4 | SCQF Level 4 |
| COGLS330 | Analysis of DNA using gel electrophoresis in life sciences and related industries | SCQF Level 5 | SCQF Level 5 | SCQF Level 5 | SCQF Level 4 | SCQF Level 5 |
|  | Industrial PathwayConsists of 8 units, 2 mandatory, Group A Optional, take a minimum of 4 units from the following: |  |  |  |  |  |
| COGLS303 | Plan and collect samples for testing in life sciences and related industries | SCQF Level 5 | SCQF Level 5 | SCQF Level 5 | SCQF Level 5 | SCQF Level 5 |
| COGLS206 | Preparing reagents in life sciences and related industries | SCQF Level 5 | SCQF Level 5 | SCQF Level 5 | SCQF Level 5 | SCQF Level 5 |
| COGLS306 | Carry out investigation in life sciences and related industries | SCQF Level 5 | SCQF Level 5 | SCQF Level 5 | SCQF Level 5 | SCQF Level 4 |
| COGLS207 | Demonstrate techniques and skills in life sciences and related industries | SCQF Level 5 | SCQF Level 5 | SCQF Level 5 | SCQF Level 5 | SCQF Level 5 |
| COGLS308 | Diagnose faults, repair and maintain equipment in life sciences and related industries | SCQF Level 5 | SCQF Level 5 | SCQF Level 5 | SCQF Level 5 | SCQF Level 5 |
| COGLS314 | Analysis of samples using high performance liquid chromatography in life sciences and related industries | SCQF Level 5 | SCQF Level 5 | SCQF Level 5 | SCQF Level 5 | SCQF Level 5 |
| COGLS315 | Analysis of samples using spectroscopy in life sciences and related industries | SCQF Level 5 | SCQF Level 5 | SCQF Level 5 | SCQF Level 5 | SCQF Level 5 |
| COGLS328 | Analysis of samples using gas chromatography in life sciences and related industries | SCQF Level 5 | SCQF Level 5 | SCQF Level 5 | SCQF Level 5 | SCQF Level 5 |
| COGLS327 | Apply basic statistics in life sciences and related industries |  SCQF Level 5 | SCQF Level 6 | SCQF Level 5 | SCQF Level 5 | SCQF Level 6 |
| COGLS311 | Develop and provide training in life sciences and related industries | SCQF Level 6 | SCQF Level 4 | SCQF Level 5 | SCQF Level 5 | SCQF Level 5 |
|  | Group B Optional, take a minimum of 1 unit from the following: |  |  |  |  |  |
| COGLS203 | Use information recording systems in life sciences and related industries | SCQF Level 5 | SCQF Level 4 | SCQF Level 4 | SCQF Level 5 | SCQF Level 4 |
| COGLS215 | Carry out sampling operations in life sciences and related industries | SCQF Level 4 | SCQF Level 4 | SCQF Level 4 | SCQF Level 5 | SCQF Level 4 |
| COGLS216 | Operating in a clean room or aseptic facility in life sciences and related industries | SCQF Level 4 | SCQF Level 4 | SCQF Level 4 | SCQF Level 4 | SCQF Level 3 |
| COGLS307 | Carry out small scale processing in life sciences and related industries | SCQF Level 5 | SCQF Level 4 | SCQF Level 4 | SCQF Level 4 | SCQF Level 4 |
| COGLS205 | Maintain stocks of resources, equipment and consumables in life sciences and related industries | SCQF Level 5 | SCQF Level 5 | SCQF Level 5 | SCQF Level 4 | SCQF Level 4 |
| COGLS212 | Carry out testing using manual or automated equipment in life sciences and related industries | SCQF Level 4 | SCQF Level 5 | SCQF Level 4 | SCQF Level 4 | SCQF Level 4 |
|  | Clinical PathwayConsists of 8 units, 2 mandatory, Group A Optional, take a minimum of 4 units from the following: |  |  |  |  |  |
| COGLS206 | Preparing reagents in life sciences and related industries | SCQF Level 5 | SCQF Level 5 | SCQF Level 5 | SCQF Level 5 | SCQF Level 5 |
| COGLS316 | Amplifying and analysing DNA or RNA samples using PCR or qPCR in life sciences and related industries | SCQF Level 5 | SCQF Level 5 | SCQF Level 5 | SCQF Level 3 | SCQF Level 5 |
| COGLS330 | Analysis of DNA using gel electrophoresis in life sciences and related industries | SCQF Level 5 | SCQF Level 5 | SCQF Level 5 | SCQF Level 4 | SCQF Level 5 |
| COGLS306 | Carry out investigation in life sciences and related industries | SCQF Level 5 | SCQF Level 5 | SCQF Level 5 | SCQF Level 5 | SCQF Level 4 |
| COGLS317 | Analysing samples using light microscopy in life sciences and related industries | SCQF Level 5 | SCQF Level 5 | SCQF Level 4 | SCQF Level 4 | SCQF Level 4 |
| COGLS329 | Culturing or fermenting cells for life sciences and related industries | SCQF Level 4 | SCQF Level 5 | SCQF Level 5 | SCQF Level 4 | SCQF Level 5 |
| COGLS321 | Carry out risk assessments in life sciences and related industries | SCQF Level 5 | SCQF Level 5 | SCQF Level 5 | SCQF Level 5 | SCQF Level 5 |
| COGLS323 | Write reports for activities in life sciences and related industries | SCQF Level 5 | SCQF Level 5 | SCQF Level 5 | SCQF Level 5 | SCQF Level 5 |
| COGLS308 | Diagnose faults, repair and maintain equipment in life sciences and related industries | SCQF Level 5 | SCQF Level 5 | SCQF Level 5 | SCQF Level 5 | SCQF Level 5 |
| COGLS318 | Maintaining cell lines in life sciences and related industries | SCQF Level 5 | SCQF Level 5 | SCQF Level 5 | SCQF Level 5 | SCQF Level 5 |
|  | Group B Optional, take a minimum of 1 unit from the following: |  |  |  |  |  |
| COGLS203 | Use information recording systems in life sciences and related industries | SCQF Level 5 | SCQF Level 4 | SCQF Level 4 | SCQF Level 5 | SCQF Level 4 |
| COGLS307 | Carry out small scale processing in life sciences and related industries | SCQF Level 5 | SCQF Level 4 | SCQF Level 4 | SCQF Level 4 | SCQF Level 4 |
| COGLS217 | Drawing blood samples from patients for investigation in life sciences and related industries | SCQF Level 5 | SCQF Level 4 | SCQF Level 4 | SCQF Level 4 | SCQF Level 3 |
| COGLS216 | Operating in a clean room or aseptic facility in life sciences and related industries | SCQF Level 5 | SCQF Level 5 | SCQF Level 5 | SCQF Level 4 | SCQF Level 3 |
| COGLS213 | Preparing biological specimens or samples for investigations in life sciences and related industries | SCQF Level 5 | SCQF Level 5 | SCQF Level 5 | SCQF Level 5 | SCQF Level 5 |
| COGLS209 | Receiving, sorting, transporting and storing samples in life sciences and related industries | SCQF Level 5 | SCQF Level 5 | SCQF Level 4 | SCQF Level 4 | SCQF Level 4 |