BTEC Assignment Brief

Qualification	BTEC Level 3 National Foundation Diploma in Applied Science BTEC Level 3 National Diploma in Applied Science BTEC Level 3 National Extended Diploma in Applied Science
Unit number and title	**Unit 4: Laboratory Techniques and their Application**
Learning aim(s) (For NQF only)	**D:** Understand how scientific information may be stored and communicated in a workplace laboratory
Assignment title	Storing and communicating information in a laboratory.
Assessor	
Issue date	
Hand in deadline	

Vocational Scenario or Context	You are a lab technician working in the development department for a pharmaceutical company that develops and produces new drugs. The lab stores confidential information relating to drug development. It also stores personal and confidential information relating to volunteers who are used for drug trials. Your manager has asked you to produce a report evaluating the challenges in storing and communicating the range of information recorded and processed within the laboratory, comparing the systems in the development laboratory to those in the company's manufacturing department.

Task 1	You must write a report that: • Explains how useful scientific information is obtained from large data sets • Explains how a workplace laboratory records and processes large datasets of scientific information(e.g. booking, identification number, format, records) and the type of data collected (e.g. healthcare records) • Explains how this meets customer needs and how it ensures traceability e.g. signatures, unique computer logins • Explains how the information collected is transformed into a useful form for the customer • Analyses how different workplace laboratories store and manage scientific information • Analyses how different workplace laboratories communicate with each other and with external

	customers or regulatory bodies, explaining the purpose of doing so • Comments on whether the way in which the information is communicated is fit for purpose and how it could improve. • Explains and contrasts the benefits and the issues involved in obtaining, organising, retrieving, pooling and sharing specific types of scientific information e.g. drug test results • Explains the ethical and bioethical considerations associated with storage of scientific information that may be made available to a third party e.g. healthcare records • Evaluates the challenges of storing and communicating large quantities of scientific information so that it can be retrieved and used
Checklist of evidence required	A report containing: • a description of the information stored and used in the laboratory • a description of how useful information can be obtained from large data sets • analysis of the communication channels in the organisation • evaluation of the benefits and issues involved in making large volumes of data available to others
Criteria covered by this task:	
Unit/Criteria reference	To achieve the criteria you must show that you are able to:
D.D4	Evaluate the challenges to organisations in making available large volumes of scientific information
D.M6	Analyse the differences in the storage and communication of scientific information in different work place laboratories.
D.P7	Explain how scientific information in a workplace laboratory is recorded and processed to meet the needs of the customer and to ensure traceability.
D.P8	Explain how useful scientific information is obtained from large data sets and the potential issues and benefits.
Sources of information to support you with this Assignment	Applied Science Level 3 BTEC NG Pearson
Other assessment materials attached to this Assignment Brief	