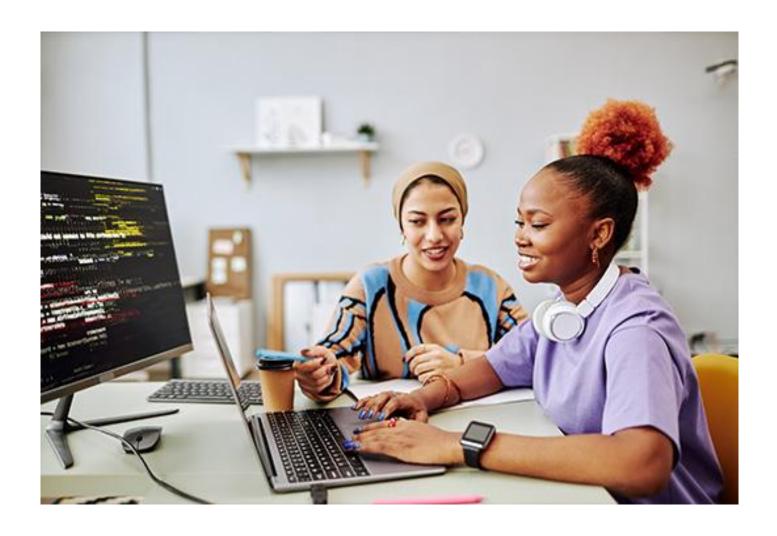


NCFE Level 3 Technical Occupational Entry for the Data Technician (Diploma)

ON: 610/4006/X



Qualification Specification



Qualification summary

Qualification title	NCFE Level 3 Technical Occupational Entry for the Data Technician (Diploma)
Ofqual qualification number (QN)	610/4006/X
Guided learning hours (GLH)	360
Total qualification time (TQT)	480
Minimum age	19
Qualification purpose	This qualification is designed to provide learners with the knowledge, skills and behaviours (KSBs) relevant to developing competence in data.
	This qualification will provide employers with reliable evidence of a learner's attainment against occupational standard KSBs that form the minimum requirements for entry into occupation.
Grading	Not yet achieved/pass/merit/distinction
Assessment method	Internally assessed and externally quality assured portfolio of evidence.
Work/industry placement experience	Work/industry placement experience is not required.
Occupational standards	This qualification is mapped against the following occupational standard:
	ST0795: Data Technician (Level 3) version 1.0
	A mapping document is available on the qualification's page on the NCFE website.
UCAS	Please refer to the UCAS website for further details of points allocation and the most up-to-date information.
Regulation information	This is a regulated qualification. The regulated number for this qualification is 610/4006/X.
Funding	This qualification may be eligible for funding. For further guidance on funding, please contact your local funding provider.

Version 1.0 August 2025



Contents

Qualification summary	2
Section 1: introduction	4
Aims and objectives Support Handbook Guidance for entry and registration Achieving this qualification Progression including job roles Progression to higher-level studies Resource requirements Realistic work environment (RWE) requirement/recommendation How the qualification is assessed Internal assessment External quality assurance Enquiries about results Not yet achieved grade Grading information Grading internally assessed units Awarding the final grade Section 2: unit content and assessment guidance	4 4 4 5 5 5 5 5 6 7 7 7 8 8 8 8
Unit 01 Data fundamentals (A/651/1111) Unit 02 Data architecture and legislation (D/651/1112) Unit 03 Data cleansing (F/651/1113) Unit 04 Blending and merging data (H/651/1114) Unit 05 Statistical analysis (J/651/1115) Unit 06 Data visualisation (K/651/1116) Unit 07 Presentation and communication of data (L/651/1117) Unit 08 Collaboration and continuing professional development (CPD) (M/651/1118) NCFE assessment strategy	11 14 18 21 23 26 28 31 34
Section 3: explanation of terms	35
Section 4: support	37
Support materials Other support materials Reproduction of this document	37 37 37
Contact us	38
Appendix A: units	39
Mandatory units	39
Change history record	40



Section 1: introduction

Centres must ensure they are using the most recent version of the Qualification Specification on the NCFE website.

Aims and objectives

This qualification aims to:

- focus on the study of the data technician in the digital sector
- enable entry to the associated occupation, providing entry competence (further learning may be required in the workplace to reach full occupational competence)
- offer breadth and depth of study, incorporating a key core of knowledge
- provide opportunities to acquire a number of practical and technical skills

The objective of this qualification is to:

 enable entry to the associated occupation, providing entry competence (further learning may be required in the workplace to reach full occupational competence)

This qualification aligns to the knowledge, skills and behaviours (KSBs) in the ST0795: Data Technician (Level 3) version 1.0 occupational standard.

Support Handbook

This Qualification Specification must be used alongside the mandatory Support Handbook, which can be found on the NCFE website. This contains additional supporting information to help with planning, delivery and assessment.

This Qualification Specification contains all the qualification-specific information you will need that is not covered in the Support Handbook.

Guidance for entry and registration

This qualification is designed as an occupational entry technical qualification for adults.

Registration is at the discretion of the centre in accordance with equality legislation and should be made on the NCFE Portal.

There are no specific prior skills/knowledge a learner must have for this qualification. However, learners may find it helpful if they have already achieved a level 2 information technology (IT) qualification.

Centres are responsible for ensuring that all learners are capable of achieving the learning outcomes (LOs) and complying with the relevant literacy, numeracy, and health and safety requirements.

Learners registered on this qualification should not undertake another qualification at the same level, or with the same/a similar title, as duplication of learning may affect funding eligibility.



Achieving this qualification

To be awarded this qualification, learners are required to successfully achieve a pass grade in all **8 units** from the graded mandatory units.

Please refer to the list of units in appendix A or the unit summaries in section 2 for further information.

To achieve this qualification, learners must successfully demonstrate their achievement of all LOs of the units as detailed in this Qualification Specification.

Progression including job roles

Learners who achieve this qualification could progress to the following:

- · employment:
 - o data support analyst
 - o data technician
 - junior data analyst
 - o junior information analyst

Progression to higher-level studies

Level 3 qualifications can support progression to higher-level study, which requires knowledge and skills different from those gained at levels 1 and 2. Level 3 qualifications enable learners to:

- apply factual, procedural and theoretical subject knowledge
- use relevant knowledge and methods to address complex, non-routine problems
- interpret and evaluate relevant information and ideas
- understand the nature of the area of study or work
- demonstrate an awareness of different perspectives and approaches
- identify, select and use appropriate cognitive and practical skills
- use appropriate research to inform actions
- review and evaluate the effectiveness of their own methods

Resource requirements

There are no mandatory resource requirements for this qualification, but centres must ensure learners have access to suitable resources to enable them to cover all the appropriate LOs.

Realistic work environment (RWE) requirement/recommendation

The assessment of competence-based criteria should ideally be conducted within the workplace. However, in instances where this is not feasible, learners can be assessed in a realistic work environment (RWE) designed to replicate real work settings.

It is essential for organisations utilising an RWE to ensure it accurately reflects current and authentic work environments. By doing so, employers can be confident that competence demonstrated by a learner in an RWE will be translated into successful performance in employment.

In establishing an RWE, the following factors should be considered:



The work situation being represented is relevant to the competence requirements being assessed:

- the work situation should closely resemble the relevant setting
- equipment and resources that replicate the work situation must be current and available for use to ensure that assessment requirements can be met
- time constraints, resource access and information availability should mirror real conditions

The learner's work activities reflect those found in the work environment being represented, for example:

- interaction with colleagues and others should reflect expected communication approaches
- tasks performed must be completed to an acceptable timescale
- learners must be able to achieve a realistic volume of work as would be expected in the work situation being represented
- learners operate professionally with clear understanding of their work activities and responsibilities
- feedback from colleagues and others (for example customers, service users) is maintained and acted upon
- account must be taken of any legislation, regulations or standard procedures that would be followed
 in the workplace

How the qualification is assessed

Assessment is the process of measuring a learner's skill, knowledge and understanding against the standards set in a qualification.

This qualification is internally assessed and externally quality assured.

The assessment consists of one component:

• an internally assessed portfolio of evidence, which is assessed by centre staff and externally quality assured by NCFE (internal quality assurance must still be completed by the centre as usual)

Learners must be successful in this component to gain the Level 3 Technical Occupational Entry for the Data Technician (Diploma).

Learners who are not successful can resubmit work within the registration period; however, a charge may apply in cases where additional external quality assurance visits are required.

Unless otherwise stated in this specification, all learners taking this qualification must be assessed in English and all assessment evidence presented for external quality assurance must be in English.



Internal assessment

We have created some sample tasks for the eight internally assessed units, which can be found within a separate document in the member's area of the NCFE website. These tasks are not mandatory. You can contextualise these tasks to suit the needs of your learners to help them build up their portfolio of evidence. The tasks have been designed to cover all LOs for eight units and provide opportunities for stretch and challenge. For further information about contextualising the tasks, please contact the Provider Development team.

Each learner must create a portfolio of evidence generated from appropriate assessment tasks to demonstrate achievement of all the LOs associated with each unit. The assessment tasks should allow the learner to respond to a real-life situation that they may face when in employment. On completion of each unit, learners must declare that the work produced is their own and the assessor must countersign this.

There is compensation within the internally assessed units as the grading descriptors are now based on LOs rather than specific assessment criteria (AC). This allows for increased professional judgement on the part of the assessor in terms of the learner's overall level of performance against the LOs.

If a centre needs to create their own internal assessment tasks, there are four essential elements in the production of successful centre-based assessment tasks; these are:

- ensuring the assessment tasks are meaningful with clear, assessable outcomes
- appropriate coverage of the content, LOs or ACs
- having a valid and engaging context or scenario
- including sufficient opportunities for stretch and challenge for higher attainers

Assessors can use other methods of assessment as long as they are valid and reliable and maintain the integrity of the assessment and of the standards required of this qualification.

External quality assurance

Summatively assessed and internally quality assured grades for completed units must be submitted via the NCFE Portal, prior to an external quality assurance review taking place. Following the external quality assurance review, the unit grades will either be accepted and banked by your external quality assurer (EQA) or, if they disagree with the grades, they will be rejected. More detailed guidance on this process and what to do if your grades are rejected can be found in the Support Handbook and on the NCFE website.

Enquiries about results

All enquiries relating to learners' results must be submitted in line with our Enquiries about Results and Assessment Decisions Policy, which is available on the NCFE website.

Not yet achieved grade

A result that does not achieve a pass grade will be graded as a not yet achieved grade. Learners may have the opportunity to resit. Learners may resubmit their assessment tasks if they have not successfully covered the criteria as many times as they require.



Grading information

Each unit of the qualification is graded using a structure of not yet achieved, pass, merit, distinction.

Grading internally assessed units

The grading descriptors for each unit have been included in the Qualification Specification. Grading descriptors have been written for each LO in a unit. Assessors must be confident that, as a minimum, all LOs have been evidenced and met by the learner. Assessors must make a judgement on the evidence produced by the learner to determine the grading decision for the unit.

If the learner has insufficient evidence to meet the pass criteria, a grade of not yet achieved must be awarded for the unit.

To achieve each unit the learner must:

- achieve all LOs at a pass level to gain a pass grade
- achieve all LOs at a pass level and at merit level to gain a merit grade
- achieve all LOs at a pass, merit, and distinction level to gain a distinction grade

To achieve the qualification the learner must:

pass all LOs in all units

Centres must then submit each unit grade via the NCFE Portal. The grades submitted will be checked and confirmed through the external quality assurance process. This is known as 'banking' units. Once a learner's grade has been banked, they are permitted one opportunity to revise and redraft their work; more detail on this process can be found in the Support Handbook.

The internal assessment component is based on performance of open-ended tasks that are assessed holistically against the grading descriptors to achieve a grade. Each unit of the qualification is internally assessed and will be allocated a weighting based on the guided learning hours (GLH) and a score based on the holistic grade.

There is compensation within the internally assessed units as the grading descriptors are now based on LOs rather than specific AC. All of the assessment points need to be evidenced in the learner's portfolio, but the grade awarded is based on the standard of work for the LO as a whole. This allows for increased professional judgement on the part of the assessor in terms of the learner's overall level of performance against the LOs.

Awarding the final grade

The final qualification grade is calculated by combining the scores for each unit. The total will then be converted into a grade based on the following fixed thresholds:

Unit	Max	Pass (P)	Merit (M)	Distinction (D)
Unit 01 Data fundamentals	12.5%	1	3	5
Unit 02 Data architecture and legislation	12.5%	1	3	5
Unit 03 Data cleansing	12.5%	1	3	5



12.5% 1 5 Unit 04 Blending and merging data 3 1 3 5 Unit 05 Statistical analysis 12.5% Unit 06 Data visualisation 12.5% 1 3 5 12.5% 3 5 Unit 07 Presentation and communication of data 1 Unit 08 Collaboration and continuing 12.5% 1 3 5 professional development (CPD)

The table below shows how the accumulation of each unit grade is aggregated to form the overall qualification grade:

Total Score	Grade
34–40	D
18–33	М
8–17	Р
0–7	Not yet achieved

The final grade for the qualification is based on a structure of not yet achieved, pass, merit and distinction and will be issued to the centre by NCFE upon the centre claiming the learner's certificate on the NCFE Portal.

For further information on assessment, please refer to the User Guide to the External Quality Assurance Report, which can be found on the NCFE website.

NCFE does not anticipate any changes to our aggregation methods or any overall grade thresholds; however, there may be exceptional circumstances in which it is necessary to do so to secure the maintenance of standards over time. Therefore, overall grade thresholds published within this Qualification Specification may be subject to change.



Section 2: unit content and assessment guidance

This section provides details of the structure and content of this qualification.

The types of evidence listed are for guidance purposes only. Within learners' portfolios, other types of evidence are acceptable if all learning outcomes (LOs) are covered, and if the evidence generated can be internally and externally quality assured. For approval of methods of internal assessment other than portfolio building, please contact your external quality assurer (EQA).

The explanation of terms explains how the terms used in the unit content are applied to this qualification. This can be found in section 3.

Version 1.0 August 2025



Unit 01 Data fundamentals (A/651/1111)

Unit summary

The learner will gain an understanding of the value, types and sources of data. The learner will understand the use of data and how to extract data from identified trusted sources. They will go on to understand how data is collected through customer-centric interactions in a secure manner and how data underpins digital interactions. The learner will also be able to collect, collate and format data and save to meet requirements.

Assessment

This unit is internally assessed and externally quality assured.

Mandatory Graded P/M/D Level 3 45 GLH

Learning outcomes (LOs) The learner will:	Assessment criteria (AC)	Pass The learner will:	Merit The learner will:	Distinction The learner will:
Understand the value, types and sources of data	 1.1 The value of data to an organisation 1.2 How a range of quantitative and qualitative data can be used to highlight and explain trends 1.3 How common sources of data are used within an organisation (for example, internal, external, open datasets, public and private) 1.4 How trusted external or third-party data is used to support an organisation's data strategy 	Describe the value of data to an organisation. Outline how a range of quantitative and qualitative data can be used to highlight and explain trends. Describe how common sources of data are used within an organisation. Outline how trusted external or third-party data is used to support an organisation's data strategy.	Explain the importance of using a range of qualitative and quantitative data to highlight trends and patterns with consideration of how this could bring value to an organisation. Explain how an organisation could use different data sources to support their data strategy. Consideration should be given to any internal data available and the integration of trusted external or third-party data.	Evaluate the importance of using a range of quantitative and qualitative data from various sources and how this can bring value to an organisation.



Learning outcomes (LOs)	Assessment criteria (AC)	Pass	Merit	Distinction
The learner will: 2. Understand the use of data and how to extract data from a range of sources	2.1 The purpose and use of data formats:	The learner will: Outline the purpose and use of data formats (as identified in AC2.1).	The learner will: Discuss a range of data types, comparing their use and suitability when preparing for analysis. Consideration should be given to issues faced by an individual/organisation when using, extracting and migrating data.	The learner will: Justify why it is important to choose the right data and suitable methods for extracting it to meet specific requirements.
	2.2 The importance of selecting the most appropriate data suitable for analysis 2.3 How to access, extract and migrate data from a range of sources	Outline the importance of selecting the most appropriate data suitable for analysis. Outline how to access, extract and migrate data from a range of sources.		
3. Understand how data underpins digital interactions and how it is obtained through customer-centric interactions	3.1 The significance of data and how it underpins digital interactions and connections across the digital landscape (for example, transactional or booking data)	Outline the significance of data and how it underpins digital interactions and connections across the digital landscape.	Discuss a range of ways that customer-centric data can be obtained and the benefits this data offers to an organisation.	Analyse the value of customer interaction data and how this underpins personalised and effective digital experiences.
	 3.2 How data can be obtained through customer-centric interactions: applications devices 	Identify how data can be obtained through customercentric interactions (as identified in AC3.2).		



Learning outcomes (LOs) The learner will:	Assessment criteria (AC)	Pass The learner will:	Merit The learner will:	Distinction The learner will:
	 internet of things (IoT) 			
Understand and be able to collect, collate and format data and save to meet requirements	4.1 How to collate data from multiple sources to produce a dataset to meet requirements	Outline how to collate data from multiple sources to produce a dataset to meet requirements.	Explain techniques that could be used to identify the most relevant data and methods that could be used	Justify the selection of methods used to collect, organise, and format data to meet requirements.
	4.2 Collect data from a range of sources and migrate, format and save the new dataset	Demonstrate the ability to collect data from a range of sources and migrate, format and save the new dataset.	to collate it.	



Unit 02 Data architecture and legislation (D/651/1112)

Unit summary

The learner will gain an understanding of data architecture and the frameworks against which data is stored, managed and distributed, in line with requirements informed by relevant regulatory and legal standards and industry best practice. This unit will provide the learner with the knowledge and skills required to store, manage and distribute data in compliance with data security standards and legislation.

Assessment This unit is internally assessed and externally quality assured. Mandatory Graded P/M/D Level 3 45 GLH

Learning outcomes (LOs) The learner will:	Assessment criteria (AC)	Pass The learner will:	Merit The learner will:	Distinction The learner will:
1. Understand data architecture	1.1 The role of data architecture frameworks (for example, The Open Group Architecture Framework (TOGAF)) in supporting business strategy 1.2 The function of data architecture frameworks in supporting an organisation's data architecture strategy (for example, access,	Outline the role of data architecture frameworks in supporting business strategy. Outline the function of data architecture frameworks in supporting an organisation's data architecture strategy.	Describe the role of data architecture frameworks in supporting business strategy. Describe the role of data architecture frameworks in supporting an organisation's data architecture strategy.	Evaluate the importance of data architecture frameworks in supporting business strategy. Evaluate the importance of data architecture frameworks in supporting an organisation's data architecture strategy.
	managed, shared)	Identify the types of data	Discuss the use of data	Evaluate the importance of
	1.3 The types of data architecture (for example, warehouse,	Identify the types of data architecture and their different uses within an	architecture, considering the many ways it is used to	Evaluate the importance of data architecture for supporting business
	mart, lake) and their	organisation.	support an organisation.	strategy.



Learning outcomes (LOs) The learner will:	Assessment criteria (AC)	Pass The learner will:	Merit The learner will:	Distinction The learner will:
	different uses within an organisation 1.4 The characteristics of data architecture (for example, governance, compliance, security)	Outline the characteristics of data architecture.		
Understand legal and regulatory requirements and store, manage and distribute data in compliance with standards and legislation	 2.1 The purpose and use of legislation and standards to support the use of data: Data Protection Act (DPA) 2018 Computer Misuse Act 1990 Copyright, Designs and Patents Act 1988 Payment Card Industry Data Security Standard (PCI DSS) ISO/IEC 27001 	Outline the purpose and use of legislation and standards to support the use of data (as identified in AC2.1).	Explain the impact that legislation and standards can have upon an organisation and its employees.	Evaluate the importance of storing, managing, and distributing data in compliance with relevant legislation, regulations and standards.
	2.2 The purpose and use of intellectual property rights (IPR) to support the use of data	Outline the purpose and use of IPR to support the use of data.		
	2.3 The purpose and use of the data sharing code of practice	Outline the purpose and use of the data sharing code of practice.		



Learning outcomes (LOs)	Assessment criteria (AC)	Pass The learner wills	Merit The learner wills	Distinction The learner will
The learner will:	2.4 The concept of marketing consent and how this applies to data analysis	The learner will: Outline the concept of marketing consent and how this applies to data analysis.	The learner will: Discuss ways in which organisations can protect PII and techniques for mitigation against noncompliance.	The learner will:
	2.5 How to define personally identifiable information (PII) and why it is important to protect this information	Outline how to define PII and why it is important to protect this information.		
	2.6 The impact of non- compliance with legal and regulatory requirements on an organisation	Identify the impact of non- compliance with legal and regulatory requirements on an organisation.	Explain the impact of non- compliance with legal and regulatory requirements on an organisation.	
	2.7 How to collect datasets in line with Data Standards Authority (DSA) recommendations (for example, transparency, accountability, fairness)	Outline how to collect datasets in line with DSA recommendations.	Discuss a range of security controls and procedures that can be applied to ensure data security and how this can be used to support adherence to DSA recommendations.	
	2.8 The purpose of security controls and procedures to ensure data security (for example, encryption, resilience)	Outline the purpose of security controls and procedures to ensure data security.		
	2.9 Store, manage and distribute data in compliance with data	Demonstrate the ability to store, manage and distribute data in compliance with data		



Learning outcomes (LOs) The learner will:	Assessment criteria (AC)	Pass The learner will:	Merit The learner will:	Distinction The learner will:
THE ISAME.	security standards and legislation	security standards and legislation.	The learner will.	The learner will.
3. Understand the ethical use of data	3.1 The purpose and use of the Data Ethics Framework to support the use of data: • transparency • accountability • fairness	Outline the purpose and use of the Data Ethics Framework to support the use of data (as identified in AC3.1).	Explain how the principles of the Data Ethics Framework can be implemented when gathering, analysing and presenting data.	Evaluate the importance of using data ethically, considering transparency, accountability and fairness, and potential impacts on individuals and organisations.
	3.2 The ethical considerations when gathering, analysing and presenting data (for example, consent, contract, legal obligations)	Outline the ethical considerations when gathering, analysing and presenting data.		



Unit 03 Data cleansing (F/651/1113)

Unit summary

The learner will gain an understanding of common data quality issues and will be able to apply cleansing measures and test and assess confidence and integrity in data. The learner will go on to understand and apply cross-checking methods to identify faults.

Assessment

This unit is internally assessed and externally quality assured.

Mandatory Graded P/M/D Level 3 45 GLH

Learning outcomes (LOs) The learner will:	Assessment criteria (AC)	Pass The learner will:	Merit The learner will:	Distinction The learner will:
Understand common data quality issues, apply data cleansing measures and test and assess confidence and integrity in data	1.1 The characteristics and impact of common data quality issues: • inconsistent data (for example, duplicate entries, out-of-date data) • human error (for example, spelling errors, introduction of bias) • compliance issues (for example, the Data Protection Act 2018)	Outline the characteristics and impact of common data quality issues (as identified in AC1.1).	Explain the importance of data quality and the data cleansing methods used to address common data quality issues.	Analyse how data cleansing methods are used to provide confidence in the quality and accuracy of the data produced.
	1.2 The application of data cleansing methods, including:	Outline the application of a range of data cleansing methods (as identified in AC1.2).		



Learning outcomes (LOs)	Assessment criteria (AC)	Pass	Merit	Distinction
The learner will:		The learner will:	The learner will:	The learner will:
The learner Will:	removal of duplicate entries excluding out-of-date data parsing data replacing null/missing values 1.3 The importance of data quality in ensuring confidence and integrity: usability validity reliability repeatability source of data (for example, primary or secondary data) appropriateness to task based on bias	Outline the importance of data quality in ensuring confidence and integrity (as identified in AC1.3).	The learner Will:	The learner Will:
	identified within the dataset	Domonatrata the ability to		
	1.4 Apply appropriate data cleansing measures	Demonstrate the ability to apply appropriate data cleansing measures.		
	1.5 Test and assess confidence and integrity in the data	Demonstrate the ability to test and assess confidence and integrity in the data.		
2. Understand and apply		•	Discuss a variety of	Evaluate the importance of
Understand and apply cross-checking methods	2.1 The application of cross- checking methods for	Outline the application of cross-checking methods for	Discuss a variety of validation and verification	Evaluate the importance of validation and verification



V.

Learning outcomes (LOs) The learner will:	Assessment criteria (AC)	Pass The learner will:	Merit The learner will:	Distinction The learner will:
	validation and verification: • validation (for example, length, format, data type) • verification:	validation and verification (as identified in AC2.1).	techniques and their role in ensuring data accuracy and reliability.	techniques for cross- checking data and taking corrective action when validating data.
	 2.2 The importance of taking corrective action when validating data 2.3 Apply cross-checking methods to identify faults and data results to meet requirements 	Identify the importance of taking corrective action when validating data. Demonstrate the ability to apply cross-checking methods to identify faults and data results to meet requirements.	_	

Version 1.0 August 2025



Unit 04 Blending and merging data (H/651/1114)

Unit summary

The learner will understand how to filter data to meet project requirements. The learner will also understand the value of blended data and the importance of manipulating and linking different datasets whilst ensuring that accuracy and consistency is maintained to meet requirements. The learner will be able to blend data by combining data from various sources and formats to explore its relevance and to present it in an appropriate format.

Assessment This unit is internally assessed and externally quality assured. Mandatory Graded P/M/D Level 3 54 GLH

Learning outcomes (LOs) The learner will:	Assessment criteria (AC)	Pass The learner will:	Merit The learner will:	Distinction The learner will:
Understand how to filter data	1.1 The importance of filtering data (for example, accuracy, reliability)	Identify the importance of filtering data.	Explain a range of techniques used when filtering data to meet requirements.	Evaluate the importance of filtering data to meet project requirements.
	1.2 How to filter data to meet project requirements	Outline how to filter data to meet project requirements.		
Understand the value of blended data and manipulate, link and audit data	2.1 The value of blended data (for example, deeper business insights)	Identify the value of blended data.	Discuss a range of blending, manipulating and linking data techniques and their importance in preparing data	Evaluate the importance of blending, manipulating and linking data techniques when preparing data for
	 2.2 The application of blending and manipulation techniques: data joining (for example, inner, full) consolidation (for example, combining 	Outline the application of blending and manipulation techniques (as identified in AC2.2).	for analysis and auditing.	analysis and auditing.



Learning outcomes (LOs)	Assessment criteria (AC)	Pass	Merit	Distinction
The learner will:	,	The learner will:	The learner will:	The learner will:
	separate worksheets into one worksheet) merging dataset (for example, combining files with the same structure into one			
	dataset)			
	2.3 Provide blended data from multiple sources in an appropriate format	Demonstrate the ability to provide blended data from multiple sources in an appropriate format.		
	2.4 The importance of manipulating and linking different datasets	Identify the importance of manipulating and linking different datasets.		
	2.5 Apply manipulation techniques to link different datasets and meet requirement	Demonstrate the ability to apply manipulation techniques to link different datasets and meet requirements.		
	2.6 Assess the integrity of blended and manipulated data results: • validity • scope • anomalies	Demonstrate the ability to assess the integrity of blended and manipulated data results (as identified in AC2.6).		



Unit 05 Statistical analysis (J/651/1115)

Unit summary

The learner will understand and be able to apply modelling statistical methods and algorithms. Learners will also be able to normalise data with the purpose of identifying trends and patterns to support business outcomes using statistical methods to analyse the data.

Assessment

This unit is internally assessed and externally quality assured.

Mandatory Graded P/M/D Level 3 54 GLH

Learning outcomes (LOs) The learner will:	Assessment criteria (AC)	Pass The learner will:	Merit The learner will:	Distinction The learner will:
Understand and apply data modelling, statistical methods and algorithms	 1.1 The application of data modelling techniques to extract relevant data: conceptual logical physical 1.2 The application of statistical methods to normalise data and to identify trends and patterns: standard deviation – measures the variance from the mean linear regression – identifies relationship between data variables 	Outline the application of data modelling techniques to extract relevant data (as identified in AC1.1). Outline the application of statistical methods to normalise data and to identify trends and patterns (as identified in AC1.2).	Explain data modelling techniques, algorithms and statistical methods used to normalise data, identify trends and patterns and support problem solving.	Evaluate the importance of data modelling techniques, algorithms and statistical methods used to normalise data, identify trends and patterns and support problem solving.



ı		U	_	
ı			,	
ı	'	h	ì	

Learning outcomes (LOs)	Assessment criteria (AC)	Pass	Merit	Distinction
The learner will:		The learner will:	The learner will:	The learner will:
THE ISSUITE WILL	 clustering – used to group related data points within a dataset time series modelling – identifies patterns over time (for example, weekly or monthly trends) correlation – identifies a 	THO TOURING WIII.	THE ICANOL WIII.	The location will.
	relationship between datasets			
	1.3 The process of data normalisation to remove redundancy and improve integrity 1.4 The features and function of algorithms to solve problems within data (for example, identifying patterns and trends, provides predictive analytics)	Identify the process of data normalisation to remove redundancy and improve integrity. Identify the features and function of algorithms to solve problems within data.		
	1.5 Apply appropriate data modelling techniques and algorithms to identify trends and	Demonstrate the ability to apply appropriate data modelling techniques and algorithms to identify trends		
	patterns in data	and patterns in data.		

Version 1.0 August 2025



Learning outcomes (LOs)	Assessment criteria (AC)	Pass	Merit	Distinction
The learner will:		The learner will:	The learner will:	The learner will:
	1.6 Apply an appropriate	Demonstrate the ability to		
	statistical method to	apply an appropriate		
	interpret trends and	statistical method to		
	patterns in data	interpret trends and patterns		
		in data.		1



Unit 06 Data visualisation (K/651/1116)

Unit summary

The learner will understand data management and visualisation tools used to present data in an appropriate format for review and analysis, and to communicate results to meet technical and non-technical audience requirements. The learner will be able to present data for review and analysis by others.

Assessment

This unit is internally assessed and externally quality assured

Mandatory Graded P/M/D Level 3 36 GLH

Learning outcomes (LOs)	Assessment criteria (AC)	Pass	Merit	Distinction
The learner will:		The learner will:	The learner will:	The learner will:
Understand data	1.1 The use of data	Outline the use of data	Describe the use of data	Analyse the effectiveness of
management and	management tools to	management tools to	management tools to	data management tools to
visualisation tools and	govern, process, secure	govern, process, secure and	govern, process, secure and	govern, process, secure and
apply visualisation tools	and store data	store data.	store data.	store data.
and techniques to	1.2 The use of data	Outline the use of data	Explain how data	Evaluate the importance of
communicate data	visualisation tools to	visualisation tools to	visualisation and	data visualisation and
	manage, summarise	manage, summarise and	communication tools can be	communication tools when
	and display data (for	display data.	used to prepare and present	presenting data to technical
	example, Power BI,		data for specific audiences.	and non-technical
	Microsoft Excel)		·	audiences.
	1.3 The use of presentation	Outline the use of		
	tools to review and	presentation tools to review		
	communicate data (for	and communicate data.		
	example, Microsoft			
	PowerPoint, Canva)			
	1.4 The application of	Outline how visualisation		
	visualisation techniques	techniques are used to		
	used to present data for	present data for specific		
	specific audiences (for	audiences.		



Learning outcomes (LOs) The learner will:	Assessment criteria (AC)	Pass The learner will:	Merit The learner will:	Distinction The learner will:
	example, charts/graphs, tables, infographics)			
	1.5 Apply a range of visualisation tools and techniques to identify trends and patterns in data and communicate results to meet technical and non-technical audience requirements	Demonstrate the ability to apply a range of visualisation tools and techniques to identify trends and patterns in data and communicate results to meet technical and nontechnical audience requirements.		



Unit 07 Presentation and communication of data (L/651/1117)

Unit summary

The learner will gain an understanding of the knowledge and skills required to present and communicate data in line with audience requirements. The learner will be able to apply different techniques and tools to communicate findings from gathered data and provide a summary through clear and consistent reports and technical documentation that is tailored to meet the needs of the audience.

Assessment

This unit is internally assessed and externally quality assured.

Mandatory Graded P/M/D Level 3 36 GLH

Learning outcomes (LOs) The learner will:	Assessment criteria (AC)	Pass The learner will:	Merit The learner will:	Distinction The learner will:
Understand and apply communication methods, formats and techniques appropriate for the use of data	1.1 The application of data communication methods: • written (for example, business case, report) • verbal (for example, public speaking, conversation) • non-verbal (for example, tone of voice, body language, active listening)	Outline the application of data communication methods (as identified in AC1.1).	Describe different ways of communicating information, including various methods, formats, and techniques, and how they are used in practice.	Compare a range of communication methods, formats and techniques to determine the most appropriate based on requirements.
	1.2 The application of a range of formats used in the communication of data (for example, presentation, emails,	Outline the application of a range of formats used in the communication of data.	Describe the use of a range of formats used to communicate data clearly and effectively to different audiences.	Analyse the importance of applying a range of formats when communicating data.



Learning outcomes (LOs) The learner will:	Assessment criteria (AC)	Pass The learner will:	Merit The learner will:	Distinction The learner will:	
	virtual/augmented reality)				
	1.3 The application of communication techniques: • technical/nontechnical (for example, complexity levels of language) • active listening • tailoring to audience • use of open questioning • reflection and review • storyboarding	Outline the application of communication techniques (as identified in AC1.3).	Describe how different communication techniques can be applied to ensure information is clear and accurate.	Analyse the importance of applying various communication techniques.	
	1.4 The use of communication tools and technologies for collaborative working	Outline the use of communication tools and technologies for collaborative working.	Describe ways the communication tools and technologies are used for collaborative working.	Analyse the role of communication tools and technologies in supporting effective collaborative working.	
Understand technical documentation and summarise data within a technical document		using clear and concise technical documentation when communicating gathered data. using clear and concise technical documentation effectively communicate data analysis.		Evaluate the importance of clear and concise technical documentation in effectively communicating analysed data and insights.	
	2.2 Apply initiative to analyse findings from gathered data and summarise within a	Demonstrate the ability to apply initiative to analyse findings from gathered data and summarise within a			



Learning outcomes (LOs) The learner will:	Assessment criteria (AC)	Pass The learner will:	Merit The learner will:	Distinction The learner will:
	clear and consistent	clear and consistent		
	technical document	technical document.		



Unit 08 Collaboration and continuing professional development (CPD) (M/651/1118)

Unit summary

The learner will gain an understanding of digital transformation, and the skills required to engage with technical and non-technical stakeholders at all levels in a timely and professional manner. The learner will understand and be able to review their own development needs to remain up **to date** with developments in technologies, trends and innovation affecting data analysis.

Assessment

This unit is internally assessed and externally quality assured.

Mandatory Graded P/M/D Level 3 45 GLH

Learning outcomes (LOs) The learner will:	Assessment criteria (AC)	Pass The learner will:	Merit The learner will:	Distinction The learner will:
Understand digital transformation	1.1 The impact of digital transformation (for example, new IT system) on data-related occupations and within an overall business context: • customer issues and problems • business value • brand awareness • cultural/diversity awareness • internal and external stakeholders: • user experience • accessibility	Outline the impact of digital transformation on datarelated occupations and within an overall business context (as identified in AC1.1).	Discuss ways in which the impact of digital transformation can be managed effectively, ensuring minimal disruption.	Evaluate the impact of digital transformation on data-related occupations and businesses, and its advantage in a business context.



Learning outcomes (LOs) Assessment criteria (AC) The learner will:		Pass The learner will:	Merit The learner will:	Distinction The learner will:
The learner will.	o level of technical knowledge	The learner will.	The learner will.	The learner will.
Understand learning techniques and sources of knowledge, and review own development needs	2.1 How learning techniques (for example, evaluation and reflection) support and contribute to continuing professional development (CPD) of data-related occupations	Outline how learning techniques contribute to CPD of data-related occupations.	Describe how different types of learning techniques and sources of information contribute to ongoing CPD in data-related occupations.	Analyse a range of learning techniques and knowledge sources, evaluating their relevance and effectiveness in addressing CPD needs.
	2.2 The use of a range of sources of knowledge and verified information applicable to datarelated occupations (for example, professional networks, academic publications)	Demonstrate the ability to use a range of sources of knowledge and verified information applicable to data-related occupations.		
	2.3 Review own development needs and use a range of sources to keep up to date with developments in technologies, trends and innovation	Demonstrate the ability to review own development needs and use a range of sources to keep up to date with developments in technologies, trends and innovation.		
Understand multidisciplinary teams and working with others	3.1 The purpose of a multidisciplinary team 3.2 How the roles within a multidisciplinary team are identified	Outline the purpose of a multidisciplinary team. Identify how the roles within a multidisciplinary team are identified.	Explain the benefits and limitations of implementing multidisciplinary teams.	Evaluate the importance of effective multidisciplinary teams in enhancing working practices.



Learning outcomes (LOs)	Assessment criteria (AC)	Pass	Merit	Distinction
The learner will:	rice continue (rice)	The learner will:	The learner will:	The learner will:
4. Understand technical and	3.3 The value of communication within multidisciplinary teams 3.4 The importance of valuing difference and being sensitive to the needs of others 4.1 A range of technical and	Outline the value of communication within multidisciplinary teams. Identify the importance of valuing difference and being sensitive to the needs of others. Outline a range of technical	Describe the benefits of	Evaluate the impact of
non-technical stakeholders and apply prioritisation skills within a project	non-technical stakeholders within an organisation: customer/client management peer/colleague	and non-technical stakeholders within an organisation (as identified in AC4.1).	technical and non-technical stakeholders using logical reasoning and taking a thorough and organised approach when working within a project.	technical and non-technical stakeholders using logical reasoning and taking a thorough and organised approach when working within a project.
	 4.2 The benefits of logical reasoning and taking a thorough and organised approach when working within a project 4.3 Apply prioritisation and 	Identify the benefits of logical reasoning and taking a thorough and organised approach when working within a project. Demonstrate the ability to		
	time management skills to meet the requirements of a project	apply prioritisation and time management skills to meet the requirements of a project.		



NCFE assessment strategy

The key requirements of the assessment strategies or principles that relate to units in this qualification are summarised below.

The centre must ensure that individuals undertaking assessor or quality assurer roles within the centre conform to the assessment requirements for the unit they are assessing or quality assuring.

Knowledge learning objectives (LOs)

- assessors will need to be both occupationally knowledgeable and qualified to make assessment decisions
- internal quality assurers (IQAs) will need to be both occupationally knowledgeable and qualified to make quality assurance decisions

Skills LOs

- assessors will need to be both occupationally competent and qualified to make assessment decisions
- IQAs will need to be both occupationally knowledgeable and qualified to make quality assurance decisions

The centre with whom the learners are registered will be responsible for making all assessment decisions. Assessors must be **contracted** to work directly with the centre, contributing to all aspects of standardisation. The centre must ensure a process of training is followed, including during induction and quality assurance activities. Occupationally competent and qualified assessors from the centre must use direct observation to assess practical skills-based outcomes.

Version 1.0 August 2025



Section 3: explanation of terms

This table explains how the terms used at **level 3** in the unit content are applied to this qualification (not all verbs are used in this qualification).

Analyse	Break down the subject into separate parts and examine each part. Show how the main ideas are related and why they are important. Reference to current research or theory may support the analysis.		
Apply	Explain how existing knowledge can be linked to new or different situations in practice.		
Clarify	Explain the information in a clear, concise way.		
Classify	Organise according to specific criteria.		
Collate	Collect and present information arranged in sequential or logical order.		
Compare	Examine the subjects in detail and consider the similarities and differences.		
Critically compare	This is a development of 'compare' where the learner considers the positive aspects and limitations of the subject.		
Consider	Think carefully and write about a problem, action or decision.		
Create	Make or produce an artefact as required.		
Demonstrate	Show an understanding by describing, explaining or illustrating using examples.		
Describe	Write about the subject giving detailed information in a logical way.		
Develop (a plan/idea)	Expand a plan or idea by adding more detail and/or depth of information.		
Diagnose	Identify the cause based on valid evidence.		
Differentiate	Identify the differences between two or more things.		
Discuss	Write a detailed account giving a range of views or opinions.		
Distinguish	Explain the difference between two or more items, resources, pieces of information.		
Draw conclusions	Make a final decision or judgement based on reasons.		
Estimate	Form an approximate opinion or judgement using previous knowledge or considering other information.		



Examine strengths and weaknesses, arguments for and against and/or similarities and differences. Judge the evidence from the different perspectives and make a valid conclusion or reasoned judgement. Reference to current research or theory may support the evaluation.		
Provide detailed information about the subject with reasons showing how or why. Responses could include examples to support these reasons.		
Use existing knowledge to predict possible outcomes that might be outside the norm.		
Recognise and name the main points accurately. (Some description may also be necessary to gain higher marks when using compensatory marking).		
Explain how to put an idea or plan into action.		
Explain the meaning of something.		
Form an opinion or make a decision.		
Give a satisfactory explanation for actions or decisions.		
Carry out a task or process to meet the requirements of the question.		
Think about and organise information in a logical way using an appropriate format.		
Identify and give relevant and detailed information in relation to the subject.		
Learners should consider their actions, experiences or learning and the implications of this for their practice and/or professional development.		
Look back over the subject and make corrections or changes.		
Make an informed choice for a specific purpose.		
Supply evidence to demonstrate accurate knowledge and understanding.		
Give the main points clearly in sentences or paragraphs.		
Give the main ideas or facts in a concise way.		
Complete a series of checks utilising a set procedure.		



Section 4: support

Support materials

The following support materials are available to assist with the delivery of this qualification and are available on the NCFE website:

- learning resources
- Qualification Factsheet
- Sample Assessment Materials

Other support materials

The resources and materials used in the delivery of this qualification must be age-appropriate and due consideration should be given to the wellbeing and safeguarding of learners in line with your institute's safeguarding policy when developing or selecting delivery materials.

Products to support the delivery of this qualification may be available. For more information about these resources and how to access them, please visit the NCFE website.

Reproduction of this document

Reproduction by approved centres is permissible for internal use under the following conditions:

- you may copy and paste any material from this document; however, we do not accept any liability for any incomplete or inaccurate copying and subsequent use of this information
- the use of PDF versions of our support materials on the NCFE website will ensure that correct and up-to-date information is provided to learners
- any photographs in this publication are either our exclusive property or used under licence from a third party:
 - they are protected under copyright law and cannot be reproduced, copied or manipulated in any form
 - this includes the use of any image or part of an image in individual or group projects and assessment materials
 - all images have a signed model release



Contact us

NCFE Q6 Quorum Park Benton Lane Newcastle upon Tyne NE12 8BT

Tel: 0191 239 8000* Fax: 0191 239 8001

Email: customersupport@ncfe.org.uk

Website: www.ncfe.org.uk

NCFE © Copyright 2025. All rights reserved worldwide.

Version 1.0 August 2025

Information in this Qualification Specification is correct at the time of publishing but may be subject to change.

NCFE is a registered charity (Registered Charity No. 1034808) and a company limited by guarantee (Company No. 2896700).

CACHE; Council for Awards in Care, Health and Education; and NNEB are registered trademarks owned by NCFE.

All the material in this publication is protected by copyright.

* To continue to improve our levels of customer service, telephone calls may be recorded for training and quality purposes.

Version 1.0 August 2025



Appendix A: units

To simplify cross-referencing assessments and quality assurance, we have used a sequential numbering system in this document for each unit.

Knowledge-only units are indicated by a star. If a unit is not marked with a star, it is a skills unit or contains a mix of knowledge and skills.

Mandatory units

Unit number	Regulated unit number	Unit title	Level	GLH
Unit 01	A/651/1111	Data fundamentals	3	45
Unit 02	D/651/1112	Data architecture and legislation	3	45
Unit 03	F/651/1113	Data cleansing	3	45
Unit 04	H/651/1114	Blending and merging data	3	54
Unit 05	J/651/1115	Statistical analysis	3	54
Unit 06	K/651/1116	Data visualisation	3	36
Unit 07	L/651/1117	Presentation and communication of data	3	36
Unit 08	M/651/1118	Collaboration and continuing professional development (CPD)	3	45

The units above may be available as stand-alone unit programmes. Please visit the NCFE website for further information.



Change history record

Version	Publication date	Description of change
v1.0	August 2025	First publication