

**Unit Title:** Collecting, Recording and Analyzing Data  
**Level:** Two  
**Credit Value:** 3  
**GLH:**  
**NOCN Unit Code:** RB1/2/EM/016  
**QCA Unit Reference**  
**Grading Descriptor Number(s):** Not applicable

This unit has 4 learning outcomes.

<b>LEARNING OUTCOMES</b>	<b>ASSESSMENT CRITERIA</b>
<b>The learner will:</b>	<b>The learner can:</b>
1. Collect data for a purpose.	1.1. Design and use a questionnaire to collect data comprised of open and closed questions. 1.2. Use data collection sheets to record data from a practical exercise (e.g. measuring temperature change over time). 1.3. Identify strengths and weaknesses of different methods of data collection.
2. Categorise and record data.	2.1. Using information from tables, lists, or computer databases construct frequency and grouped frequency tables. 2.2. Using suitable examples distinguish between discrete and continuous data.
3. Represent and interpret data.	3.1. Using suitable data construct bar charts, pictograms, pie charts and line graphs. 3.2. Interpret critically statistical diagrams and graphs, explaining the main features of the data represented. 3.3. Construct and use histograms with equal intervals from frequency distributions. 3.4. By drawing a scatter diagram and a line of best fit by inspection, comment on the correlation of the data.
4. Analyse data.	4.1. Calculate mean, median and mode from lists, ungrouped and grouped frequency tables. 4.2. Calculate range and interquartile range. 4.3. Calculate the probability of a single event within the context of the data collection.

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### ASSESSMENT INFORMATION

**Guidance:**

This grid gives details of the assessment activities to be used with the unit attached. Please refer to the NOCN Handbook for definitions of each activity and the expectations for assessment practice and evidence for moderation.

**The assessment activities for this unit are indicated in the table below:**

**Key:** **P = Prescribed** – this assessment method *must* be used to assess the unit.  
**O = Optional** – this assessment method *could* be used to assess the unit.

<b>Case study</b>		<b>Project</b>	
<b>Written question &amp; answer/test/exam</b>		<b>Role play/simulation</b>	
<b>Essay</b>		<b>Practical demonstration</b>	
<b>Report</b>		<b>Group discussion</b>	
<b>Oral question and answer</b>		<b>Performance/exhibition</b>	
<b>Written description</b>		<b>Production of artefact</b>	
<b>Reflective log / diary</b>		<b>Practice file</b>	

### Signposting Key Skills

This unit offers clear opportunities for learners to provide evidence of achievement in Key Skills achievement in the following skill area/s:

<b>Key Skill</b>		<b>Wider Key Skill</b>	
Communication		Working with others	
Information Technology		Problem solving	

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Application of Number		Improving Own Learning and Performance	
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**QCA Unit Reference Code:**  
**Accredited Start date:**  
**Accredited End date:**  
**Unit Sector/Subject area:**  
**Grading descriptors:**  
**Availability for Use:**

<b>Purpose and Aim of the Unit</b>	<b>Free Text</b>
<b>Restrictions on the Availability</b>	<b>Free Text or N/A</b>
<b>Additional Assessment Requirements</b>	<b>Free Text or N/A</b>
<b>Details of relationship between the Unit and the NOS</b>	<b>Free Text or N/A</b>
<b>Details of relationship between the Unit and Standards (not NOS)</b>	<b>Free Text or N/A</b>
<b>Endorsement of the Unit by</b>	<b>Free Text or N/A</b>