

Unit Title: Research Methods
Level: Three
Credit Value: 9
GLH:
NOCN Unit Code: EE8/3/TE/002
QCA Unit Reference
Grading Descriptors: 2, 4, 7

This unit has 10 learning outcomes.

LEARNING OUTCOMES	ASSESSMENT CRITERIA
The learner will:	The learner can:
1. Understand the concepts of different types of methods	1.1. Differentiate between experiments observations, correlation's, surveys and questionnaires in a practical context
2. Understand the terminology of hypothesis testing	2.1. Use and differentiate between the terms Null, Alternative, One Tailed and Two Tailed of an appropriate significance level in a practical context
3. Understand the concept of different types of variable	3.1. Use and distinguish between independent, dependent and control variables in a practical context
4. The concepts of sampling and randomisation	4.1. Using some different methods of sampling and randomisation in appropriate contexts to include:- Representative, Opportunity, Systematic, Stratified, Quota
5. Understand the use of statistical tests	5.1. Identify the most suitable test for a given set of data, for example: Correlation, Chi-square, Tests of difference
6. Understand concepts of probability	6.1. Recognise and use probabilities in a practical context
7. Understand critical tables	7.1. Perform statistical testing on a given set of data and apply and interpret results to critical table values in a practical context
8. The concepts of central tendency and dispersion	8.1. Identify the differences between measures of central tendency and dispersion 8.2. Calculate measures of central tendency and use them appropriately
9. Understand how to present data in appropriate forms and bar charts	9.1. Select appropriate pictorial forms of presenting data, eg tables, graphs, histograms, bar charts 9.2. Present data clearly and unambiguously

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LEARNING OUTCOMES	ASSESSMENT CRITERIA
The learner will:	The learner can:
10. Understand the interpretation of results	10.1. Interpret the results of particular types of statistical analysis 10.2. Draw conclusions for the results of particular types of statistical analysis

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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.

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

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:

Key Skill		Wider Key Skill	
Communication		Working with others	
Information Technology		Problem solving	
Application of Number		Improving Own Learning and Performance	

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Accredited Start date:
Accredited End date:
Unit Sector/Subject area:
Grading descriptors:
Availability for Use:

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