

Unit Title: Statistics for Social Sciences
Level: Three
Credit Value: 9
GLH:
NOCN Unit Code: RB7/3/TE/001
QCA Unit Reference
Grading Descriptors: 1, 7

This unit has 10 learning outcomes.

LEARNING OUTCOMES	ASSESSMENT CRITERIA
The learner will:	The learner can:
1. PLEASE NOTE: DUE TO THE INABILITY TO TRANSCRIBE SOME FORMULAR IN THIS UNIT MEMBERS WHO WISH TO USE THIS UNIT MAY CONTACT THE TROCEN MIDDLESBROUGH OFFICE FOR A PAPER COPY OF THE UNIT. Types of data	1.1. Classify data as discrete, continuous, qualitative, quantitative 1.2. Classify experimental data as nominal, ordinal or cardinal
2. The factors to consider in the collection of data	2.1. Recognise different types of sample to include systematic, stratified, cluster
3. The symbols and language of statistics	3.1. Know the meaning of x , σ , $<$ to the power of 2, $<$, $>$, equal to or less than, equal to or greater than, $+$ 3.2. Distinguish between population and sample 3.3. Distinguish between a dependent variable and an independent variable 3.4. Use the terminology of probability correctly in the contest of testing, to include confidence interval, level of significance
4. The measures of dispersion	4.1. Calculate the mean deviation for a set of data 4.2. Calculate the variance and standard deviation for a set of data

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LEARNING OUTCOMES	ASSESSMENT CRITERIA
The learner will:	The learner can:
5. The normal distribution	5.1. Obtain percentages of a normal distribution using standard deviations 5.2. Explain what is meant by a skewed distribution 5.3. Calculate the z score 5.4. Use published tables for the normal distribution to calculate probabilities
6. The nature of hypotheses	6.1. Classify tests as one-tailed or two tailed 6.2. Formulate the experimental/alternative hypothesis and the corresponding null hypothesis 6.3. Explain which hypothesis is being tested 6.4. Distinguish between type 1 and type 2 error
7. The use on non-parametric tests	7.1. Use the Wilcoxon and Mann Whitney tests correctly by a) Calculating the statistic, b) Locating the statistic in the tables, c) Drawing the correct conclusion
8. The use of parametric tests	8.1. Explain the conditions for using a parametric test 8.2. Use the t test correctly for both related and unrelated samples by a) Calculating the statistic, b) Locating the statistic in the tables, c) Drawing the correct conclusions
9. Test for goodness of fit	9.1. Correctly carry out χ^2 to the power of 2 tests by a) Drawing up a contingency table, b) Calculating degrees of freedom, c) Calculating χ^2 to the power of 2, d) Using the tables correctly, e) Drawing the correct conclusion

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The learner will:	The learner can:
10. Correlation	10.1. Draw a scatter diagram and impose a line of best fit through mean (\bar{x} , \bar{y}) 10.2. Calculate and interpret Spearman's rho for given data and demonstrate an awareness of its meaning 10.3. Calculate and interpret Pearson's product moment and demonstrate an awareness of its meaning

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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