

Access to H.E. National Programme Unit



Unit Title:	Statistical Methods		
Graded Unit Code:	GA33MTH19	Ungraded Unit Code:	UA33MTH19
Pathway(s):	Science and Engineering Construction and the Built Environment		
Module(s):	Mathematics		
Level:	3	Credit Value:	3
Valid from:	1 st August 2014	Valid to:	31 st July 2024

The following QAA grade descriptors must be applied if you are delivering the graded version of this unit:

1	Understanding of the subject
3	Application of skills
7	Quality

LEARNING OUTCOMES	ASSESSMENT CRITERIA
The learner will:	The learner can:
1. Understand methods of data collection and handling	1.1 Describe methods for data collection
	1.2 Describe the main methods by which data is sampled
	1.3 Explain the difference between biased and unbiased data and suggest reasons for bias
	1.4 Determine the mean, mode and median of a set of data
	1.5 Determine whether data has positive, negative or zero skew
2. Understand the use of the inter-quartile range	2.1 Draw box plots to determine inter-quartile range

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	2.2 Interpret a box plot to comment on skew in data
3. Understand the use of standard deviation and standard error	3.1 Calculate the standard deviation of a data set
	3.2 Use the standard deviation to determine the standard error
	3.3 Use tables to determine the 95% confidence interval of a data set
4. Understanding the use of the chi-squared distribution.	4.1 For a given problem and set of data apply an appropriate inferential statistical test to accept or reject the null hypothesis.
	4.2 Draw conclusions and interpretations referring to the original problem