

Open Awards Qualification Unit



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1 Unit Details

Unit Title:	Introduction to Engineering
Unique Reference Number:	R/615/9733
Level:	Level 2
Credit Value:	3
Minimum GLH:	24

2 Learning Outcomes and Criteria

Learning Outcome (The Learner will):	Assessment Criterion (The Learner can):
1. Be able to define and explain the purpose of engineering	1.1 Give a definition of engineering
	1.2 Describe the following fields of engineering a) Civil b) Chemical c) Mechanical d) Electrical
	1.3 Describe the requirements of a minimum of 2 engineering jobs
	1.4 Give a minimum of 4 purposes of engineering
	2.2 Describe the importance of the following knowledge when working in engineering a) Maths b) Science c) Environmental awareness d) Design
2. Be able to assess the impact of engineering projects on the environment	2.1 Assess the impact of a given engineering project on the environment
3. Know methods engineers use to test designs prior to production	3.1 Give a minimum of 3 reasons why engineers test their design(s) prior to production
	3.2 Describe methods used by engineers to test designs prior to production

4. Understand what is meant by safety factors in engineering	4.1 For a given engineering project, explain what safety factor should be taken into consideration-
5. Know how computers are used in engineering	5.1 Compare different ways computers are used in engineering