

Access to H.E. National Programme Unit



Unit Title:	Electronic Components		
Graded Unit Code:	GA33EEE04	Ungraded Unit Code:	UA33EEE04
Pathway(s):	Construction and the Built Environment Science and Engineering		
Module(s):	Electrical and Electronic Engineering		
Level:	3	Credit Value:	3
Valid from:	31 st July 2021	Valid to:	31 st July 2026

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 the properties of semiconductor materials	1.1 Explain why silicon and other elements in the same periodic group are described as semiconductors
	1.2 Describe the production and properties of n-type and p-type semiconductor material
2. Be able to identify common electronic components	2.1 Identify common electronic components as discrete devices or on circuit boards
	2.2 Identify common electronic components from their symbols in circuit diagrams
3. Understand the operation, characteristics and use of common electronic components.	Describe the operation, and compare the characteristics and uses of:
	3.1 P-n junction diodes

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LEARNING OUTCOMES	ASSESSMENT CRITERIA
The learner will:	The learner can:
	3.2 Zener diodes
	3.3 Point contact transistors
	3.4 Bipolar transistors (BJT and HBT)
	3.5 Field effect transistors (FET and MOSFET)
	3.6 Linear voltage regulators, e.g. TO220, 78xx and 79xx series.