

UEENEEE130A Provide solutions and report on routine electrotechnology problems

	Test bank	Quiz	Worksheets
1. Perform fundamental numerical calculations to solve routine electrotechnology problems			
1.1 OHS procedures for a given work area are obtained and understood			
1.2 The nature of the problems are obtained from documentation or from work supervisor to establish the scope of work to be undertaken			
1.3 Problems are clearly stated in writing and/or diagrammatic form to ensure they are understood and appropriate methods used to resolve them	1, 2, 3, 4, 7, 8, 9, 10, 11, 12, 13, 14, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31	1, 2, 3, 4, 5, 6, 7, 8, 9, 10	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13
1.4 Known constants and variable related to the problem are obtained from measured values or problem documentation	1, 2, 3, 4, 7, 8, 9, 10, 11, 12, 13, 14, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31	1, 2, 3, 4, 5, 6, 7, 8, 9, 10	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13
1.5 Methods for resolving non-routine problems are considered and discussed with appropriate person(s)			
1.6 Routine problems are solved using fundamental numerical calculations with resultant outcome aligned to realistic accuracy	1, 2, 3, 4, 7, 8, 9, 10, 11, 12, 13, 14, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31	1, 4, 5, 6, 7, 8, 9, 10	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13
1.7 Solutions to routine problems are documented in accordance with established procedures			
2. Complete work and report on calculated solutions			
2.1 Solutions used to solve routine electrotechnology problems are recorded for inclusion in work/project records/technical reports in accordance with requirements			
2.2 Known reporting requirements and structures are identified and used to prepare for the production of technical reports, which communicate the outcomes solved to appropriate person(s)			
2.3 Reports are produced to communicate the solved outcomes in accordance with requirements			
2.4 Work completion is documented and appropriate person(s) notified			
Required skills and knowledge			
KS01-EE130A Electrotechnology Numeracy Diagnostic Assessment Methods			
Evidence shall show an understanding of electrotechnology numeracy diagnostic assessment methods to an extent indicated by the following aspects:			
T1 Electrotechnology Numeracy Diagnostic Test encompassing:			
• Decimals	6, 7, 12, 19	1, 5, 7, 8	1, 2, 3, 4, 5, 6, 7, 8, 10, 11, 12
• Fractions and Indices	7, 9, 10, 15	5, 8, 9	5, 12
• Percentages			8,12
• Graphs	21, 22, 23, 24, 25, 26, 27, 28, 29, 30		5, 9

• Multiples and Sub Multiples	6, 9, 11, 12		1, 2, 3, 4, 5, 7, 10, 11
• Ratios and Proportions	16, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30		6, 12
• Transposition	3, 4, 10, 13, 17	1, 4	1
• Areas and Volumes	8, 20, 31	2	
• Trigonometry and Pythagoras' Theorem	2, 14, 18	1, 3, 6	
• Construction of Angles and Triangles	1, 5	3, 6, 10	
T2 Recommendation of Remedial Action			
• Action plan for remedial action			
• Other support agencies			
• Failure to follow action plan			
• Monitoring of remedial action of learner			
KS02-EE130A Electrotechnology Literacy Diagnostic Assessment Methods			
Evidence shall show an understanding of electrotechnology literacy diagnostic assessment methods to an extent indicated by the following aspects:			
T1 Electrotechnology Literacy Diagnostic Test encompassing:			
• Reading Comprehension	32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42	1, 12	
• Spelling	32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42		
• Sentence Construction (Syntax)	32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42		
• Grammar	32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42		
T2 Recommendation of Remedial Action			
• Action plan for remedial action			
• Other support agencies			
• Failure to follow action plan			
T3 Communicating with suppliers and clients			