

UEENEEK142A - Apply environmentally and sustainable procedures in the energy sector CIII-Core and CII-Selective

Essential Performance Capabilities (from the 55 EPC's specified by ERAC for an Electrical license) that relate to UEENEEK142A include:

53 Demonstrate an understanding of the basic operation and energy efficiency of various types of luminaires, and the purpose of components and ancillary equipment, including related hazards and their safety requirements.

Required skills and knowledge	Wiring Rules reference and regulations	McGraw Hill Text	Heading reference	Test Bank	Quizzes	Cases	Worksheets	PPTs	Interactives	Animations
T1 Sustainable work practices encompassing:										
notion of sustainable work practice	Clause 1.2(a), (b), (c), (d) & (e)	Jenneson, Electrical Principles for Electrical Trades 7e	18.1 Workshop safety practices	Q1, Q2, Q3, Q4, Q5, Q7, Q40	Q1	Q1, Q2, Q3, Q4, Q5	Q1, Q2, Q3, Q4, Q5, Q6	Slides 2, 3		Greenhouse Effect
effects of neglecting sustainable work practice	Wiring Rules Appendix E Clause E2.1	Jenneson, Electrical Principles for Electrical Trades 7e	18.1 Workshop safety practices	Q6, Q7	Q3	Q1, Q2, Q3, Q4, Q5	Q1, Q2, Q3, Q4, Q5, Q6	Slides 2, 4		Greenhouse Effect
the greenhouse effect - causes, consequences.	Wiring Rules Appendix E Clause E2.1	Jenneson, Electrical Principles for Electrical Trades 7e	16.3 Incandescent lamps	Q11	Q11	Q1, Q2, Q3, Q4, Q5	Q1, Q2, Q3, Q4, Q5, Q6	Slides 2, 5		Greenhouse Effect
international and national greenhouse imperatives.	Wiring Rules Appendix E Clause E2.1	Jenneson, Electrical Principles for Electrical Trades 7e	12.1 Renewable energy sources within a consumer installation		Q5	Q1, Q2, Q3, Q4, Q5	Q1, Q2, Q3, Q4, Q5, Q6	Slides 2, 6		Greenhouse Effect
the role of regulators and similar bodies	Wiring Rules Appendix E Clause E1, Also Clause 1.1 detrailling the scope, application and Fundamental Principles	Jenneson, Electrical Principles for Electrical Trades 7e	3.4 Using the Wiring Rules	Q41	Q4	Q1, Q2, Q3, Q4, Q5	Q1, Q2, Q3, Q4, Q5, Q6	Slides 2, 7		Greenhouse Effect
legislative requirements	Clause 1.4.17 Authority, regulatory	Jenneson, Electrical Principles for Electrical Trades 7e	3.1 Electrical licensing	Q42	Q12	Q1, Q2, Q3, Q4, Q5	Q1, Q2, Q3, Q4, Q5, Q6	Slides 2, 7		Greenhouse Effect
economic benefits of sustainable initiatives.		Jenneson, Electrical Principles for Electrical Trades 7e	7.2 Wiring and cabling systems	Q8, Q9, Q38, Q39	Q2, Q4, Q5	Q1, Q2, Q3, Q4, Q5	Q1, Q2, Q3, Q4, Q5, Q6	Slides 2, 8, 9, 20, 21		Greenhouse Effect
T2 Techniques for reducing carbon produced energy and hence greenhouse gases encompassing:										
domestic, commercial and industrial strategies	Section 4.8, Clause 4.8.1 (NOTE)	Jenneson, Electrical Principles for Electrical Trades 7e	15.3 Water heating		Q13	Q3, Q4, Q5	Q7, Q8		Identify the types of wind turbines and the wind turbine operations pictured	
trade related technologies and methods	Section 3. Clauses 3.1.2 & 3.3.1	Jenneson, Electrical Principles for Electrical Trades 7e	4.4 Power cable types and applications		Q14	Q3, Q4, Q5	Q7, Q8		Identify the types of wind turbines and the wind turbine operations pictured	
energy efficient retrofits (overview).	Section 7.3. Generation Systems	Jenneson, Electrical Principles for Electrical Trades 7e	1.1 Producing electricity	Q16, Q17, Q18, Q19, Q20, Q21, Q22, Q23, Q24, Q25, Q26, Q27, Q28, Q29, Q30, Q31, Q32, Q33, Q34, Q35, Q36, Q37	Q8, Q9, Q10	Q3, Q4, Q5	Q7, Q8		Identify the types of wind turbines and the wind turbine operations pictured	
renewable energy technologies (overview)	Section 7.3. Generation Systems	Jenneson, Electrical Principles for Electrical Trades 7e	12.1 Renewable energy sources within a consumer installation	Q10, Q11, Q12, Q13, Q14, Q15	Q6, Q7	Q3, Q4, Q5	Q7, Q8		Identify the types of wind turbines and the wind turbine operations pictured	