UEENEEE148A Carry out routine work activities in an energy sector environment

Element/Performance criteria	MHE text	Heading reference	Test bank	Quiz	Case	Worksheets	Interactives	Animations	YouTube playlist
1. Prepare to undertake routine work activities									
1.1 Instructions for preparing the work activity are communicated and confirmed to ensure clear understanding	Pethebridge, Electrical Wiring Practice 8e	6.4 Undertaking electrical work 6.5 Working with specifications, schedules and drawings	1, 2, 10, 11, 12, 13	6, 7, 8, 9, 10, 11		1, 6			
1.2 OHS policies and procedures are communicated and confirmed to ensure they are understood as they apply to the carrying out of the work	Pethebridge, Electrical Wiring Practice 8e	2 - Work and electrical safety	5, 6, 7, 14, 18, 22, 24, 25	12, 13, 14, 15, 16, 17, 18, 29, 30, 31, 32	1	1, 2, 6, 9	1		8
1.3 Tools, equipment and personal protective equipment necessary for the work are identified, scheduled and checked to ensure they work correctly as intended and are safe to use in accordance with established procedures	Pethebridge, Electrical Wiring Practice 8e Jenneson, Electrical Principles 7e	2 - Work and electrical safety 9.3 Testing devices 18.2 Tools used in electrical work 18.3 Materials used for custom components 1.4 Transportation of electricity from the source to the load 2.6 Measurement instruments	7, 13, 14, 15, 16, 17, 18, 19, 20	1, 3, 7, 8, 9, 15, 16, 17, 18, 19, 20, 21, 22, 58	4, 5	3, 4, 6, 9	2	1	1, 2, 3, 8, 8
1.4 Appropriate personnel are consulted to ensure the work is coordinated effectively with others involved			21, 22	11, 23, 24, 25		2, 5, 6			
1.5 Resources and materials needed to do the work are confirmed, scheduled and obtained in accordance with established procedures	Pethebridge, Electrical Wiring Practice 8e	6.4 Undertaking electrical work 6.5 Working with specifications, schedules and drawings 9.3 Testing devices	13, 15, 16, 17, 23	26		6			
1.6 Schedule of work including practices for working safely are confirmed in accordance with instructions and requirements	Pethebridge, Electrical Wiring Practice 8e	6.4 Undertaking electrical work 6.5 Working with specifications, schedules and drawings	14, 19, 22, 24	10, 25, 26, 27, 28		6, 7, 8			
2. Carry out work as instructed									
2.1 OHS policies and procedures and safe work practices are followed to eliminate or minimise incidents	Pethebridge, Electrical Wiring Practice 8e	2 - Work and electrical safety	6, 7, 14, 18, 19, 20, 22, 24, 25	12, 14, 15, 16, 17, 18, 29, 30, 31, 32	1	2, 3, 7, 10, 11	1	1	3, 4, 8, 10, 11, 12
2.2 Schedule of work is followed to ensure work is completed in an agreed time, to a quality standard and with a minimum of waste	Pethebridge, Electrical Wiring Practice 8e	6.4 Undertaking electrical work 6.5 Working with specifications, schedules and drawings	21, 26	6, 10, 33, 34, 35, 36, 37, 38, 39, 40					10, 11, 12
2.3 Knowledge of electrotechnology practices and electrical principles are applied to routine work activities	Pethebridge, Electrical Wiring Practice 8e	9 - Testing techniques and compliance verification	3, 4, 13, 15, 16, 17, 18, 19, 20, 23, 27, 28, 29	25, 26, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53	2, 3	1, 3, 9, 12	1, 2	1	1, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12
2.4 Further instructions are sought from appropriate personnel in the event of unplanned happenings or conditions			27, 30	49, 51, 54, 55		13			10, 11, 12
2.5 Ongoing checks of work quality are undertaken in accordance with instructions and requirements			18, 19, 20, 26, 28, 29, 31, 32	2, 56, 57, 58, 59, 60, 61, 62, 63		14			8
3. Check results of the completed work									

3.1 Final checks are made to ensure the work conforms with instructions and to requirements			21, 23, 26, 28, 31, 32	2, 10, 59, 60, 61, 62, 63		15	2	1	8
3.2 Appropriate personnel are notified of completion of the work			21, 22, 33	64		16			
3.3 Tools, equipment and any surplus resources and materials are, where appropriate, cleaned, checked and returned to storage in accordance with established procedures			7, 9	3, 4, 5		17			8
3.4 Work area is cleaned up and made safe and sustainable energy practices are followed	Jenneson, Electrical Principles 7e	3 - Apply environmentally and sustainable procedures in the energy sector	34	65, 66		18			
3.5 Appropriate records are updated in accordance with instructions and established procedures			8	10, 34, 67		19, 20			
Required skills and knowledge									
Evidence shall show an understanding of energy sector industry organisations and practices to an extent indicated by the following aspects:									
T1 Energy sector vocations encompassing:									
• Electrical	Jenneson, Electrical Principles 7e	1.1 The electrotechnology industry							
• Electronics and communications	Jenneson, Electrical Principles 7e	1.1 The electrotechnology industry							
• Computer Systems	Jenneson, Electrical Principles 7e	1.1 The electrotechnology industry							
• Data Communication	Pethebridge, Electrical Wiring Practice 8e	5.6 Data and communications accessories							
• Refrigeration and Air Conditioning	Pethebridge, Electrical Wiring Practice 8e	15.4 Heating systems							
• Instrumentation and Control									
• Rail signalling									
• Lifts									
• Electricity supply – generation, transmission and distribution	Pethebridge, Electrical Wiring Practice 8e	1 - Electrical energy							
• Gas industry									
T2 Career paths in energy sector encompassing:									
• Australian Qualification Framework (AQF)									
• Qualifications/Classifications									
• Scope of work-installation, maintenance and servicing									
T3 Training in energy sector vocations encompassing:									
• Traineeships, apprenticeships									
• Licensed Electrician minimum requirements									
• Career advancements									
T4 Industry Organisations encompassing:									
• Employers – NECA, ECA, ME, ENA									
• EE-Oz Training Standards and EE-Oz State/Territory Network									
• Employee – Trade union group (CEPU, ETU)									
• Government - ITABs, TAFE, RTO, ERAC									
• Private providers									
T5 Qualification Requirements encompassing:									
• Unit of competency									
• Qualification assessments									
T6 Policies and Practices in energy sector industry encompassing:									
• Licensing requirements									
• OH&S requirements	Pethebridge, Electrical Wiring Practice 8e	2 - Work and electrical safety	24	12, 13, 14, 15, 16, 17, 29, 30, 31, 32	1	4, 10, 11			
• Awards									
T7 Job application encompassing:									
• Research									

• Writing									
• Methods of application									
T8 Job interview encompassing:									
• Preparation									
• Presentation									
• Evaluation									