

## UEENEE141A - Use of routine equipment/plant/technologies in an energy sector environment

| Element/Performance criteria   | Test bank    | Quizzes | Case Study    | Worksheets | YouTube playlist |
|--|--------------|---------|---------------|------------|------------------|
| <b>1. Prepare to use routine equipment, plant and technologies</b>   |              |         |               |            |                  |
| 1.1 Instructions in the use of routine equipment, plant or technologies are communicated and confirmed to ensure clear understanding   | 7            | 1, 18   |               | 5          |                  |
| 1.2 OHS policies and procedures are communicated and confirmed to ensure they are understood as they apply in the carrying out of the work   |              | 2       |               | 3, 11      |                  |
| 1.3 Tools, equipment and personnel 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 | 8            | 3       | 5             | 4,9        | 2                |
| 1.4 Appropriate personnel are consulted to ensure the work is coordinated effectively with others involved   |              | 4       |               | 10         |                  |
| 1.5 Resources and materials needed to do the work are confirmed, scheduled and obtained in accordance with established procedures  | 1, 4, 11     | 5       |               | 1          | 2, 4             |
| 1.6 Schedule of work including practices for working safely are confirmed in accordance with instructions and requirements   |              | 6       |               | 2          |                  |
| <b>2. Use routine equipment, plant and technologies</b>  |              |         |               |            |                  |
| 2.1 OHS policies and procedures and safe work practices are followed to eliminate or minimise incidents  | 2, 9, 12, 15 | 7, 17   | 1, 2, 3, 4, 5 | 3          |                  |
| 2.2 Routine equipment, plant or technologies are used in accordance with schedule of work to ensure work is completed in an agreed time, to a quality standard and with a minimum of waste                                   | 3            | 8, 12   | 1, 2, 3       | 8          | 1, 2, 3, 4       |
| 2.3 Further instructions are sought from appropriate personnel in the event of unplanned happenings or conditions  | 18           | 9, 16   |               | 7          |                  |
| 2.4 Ongoing checks of work quality are undertaken in accordance with instructions and requirements   | 5, 16        | 10      | 4             | 7          |                  |
| <b>3. Complete use of routine equipment, plant and technologies</b>  |              |         |               |            |                  |
| 3.1 Final checks are made to ensure the use of routine equipment, plant or technologies conforms with instructions and to requirements   | 6, 12        | 11      | 1, 2, 4       | 6          |                  |
| 3.2 Appropriate personnel are notified of completion of the work using routine equipment, plant or technologies  | 14, 17       | 12      |               | 12         |                  |
| 3.3 Tools, equipment and any surplus resources and materials are, where appropriate, cleaned, checked and returned to storage in accordance with established procedures  | 10, 13       | 14      |               | 13         |                  |
| 3.4 Work area is cleaned up and made safe and sustainable energy practices are followed  |              | 14      |               | 14         |                  |
| 3.5 Appropriate records are updated in accordance with instructions and established procedures   | 15           | 12, 15  |               | 15         |                  |

| Required Skills and Knowledge   |           |                    |               |           |         |
|---|-----------|--------------------|---------------|-----------|---------|
| KS01-EE141A Energy sector equipment/plant/technologies  |           |                    |               |           |         |
| Evidence shall show an understanding of energy sector equipment/plant/technologies to an extent indicated by the following aspects: |           |                    |               |           |         |
| T1 Electrical concepts encompassing:  |           |                    |               |           |         |
| • Electrical supply and distribution within a building or premises  | 4, 7, 17  | 1, 16              | 1, 2          | 1, 10, 12 |         |
| • Arrangement of circuits   | 4, 6      | 5, 12, 16          | 1, 2, 3       | 6, 7, 12  |         |
| • Protection for safety requirements and their practice   | 8         | 2, 3, 5, 6, 14, 16 | 1, 2, 3, 4, 5 | 3, 9      |         |
| • Difference between alternating and direct current   | 11        | 11, 18             |               | 2, 5      | 1, 2    |
| • Measurement and calculation of voltage, current, resistance and power in practical circuits.                                      | 6, 12     | 12                 |               | 6, 7      | 1, 2    |
| • Concepts and applications of magnetism and electromagnetic induction  | 1, 3      | 12, 17             |               | 4, 8      | 3, 4    |
| • Transformer operating principles and their application  | 1, 16, 18 | 12                 | 1, 2, 3       | 1         | 4       |
| • Hazards associated with electrical systems and apparatus  | 3, 8, 9   | 4, 6, 16           | 4, 5          | 3         | 1, 2, 3 |