

**UEECD0020 - Fix and secure electrotechnology equipment**

|                                                                                                                                                                                                                                            | Wiring Rules<br>reference and<br>regulations                              | MHE text                                   | Heading reference                                                                                                                          | Test bank                                   | Quizzes                          | Cases | Worksheets | PPTs | Interactives | Animations | Prac Manual         |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|--------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|----------------------------------|-------|------------|------|--------------|------------|---------------------|
| <b>1. Prepare to fix and secure electrotechnology equipment</b>                                                                                                                                                                            |                                                                           |                                            |                                                                                                                                            |                                             |                                  |       |            |      |              |            |                     |
| 1.1 Work health and safety (WHS)/occupational health and safety (OHS) requirements and workplace procedures for a given work area are identified and applied                                                                               | WHS regulation regarding training for work undertaken (WHS Regulation 39) | Pethebridge, Electrical Wiring Practice 8e | 18.1 Workshop safety practices                                                                                                             |                                             | 16                               |       |            |      |              |            | Practical Task 1, 2 |
| 1.2 Hazards are identified, risks are assessed and control measures are implemented                                                                                                                                                        |                                                                           | Pethebridge, Electrical Wiring Practice 8e | 18.1 Workshop safety practices                                                                                                             |                                             |                                  |       |            |      |              |            | Practical Task 1, 2 |
| 1.3 Scope of work to be undertaken is obtained from relevant documentation and/or from work supervisor                                                                                                                                     |                                                                           |                                            |                                                                                                                                            |                                             |                                  |       |            |      |              |            |                     |
| 1.4 Advice is sought from work supervisor to ensure work is coordinated effectively with others                                                                                                                                            |                                                                           |                                            |                                                                                                                                            |                                             |                                  |       |            |      |              |            |                     |
| 1.5 Materials required for the work are identified and obtained in accordance with workplace procedures                                                                                                                                    |                                                                           |                                            |                                                                                                                                            | 28                                          |                                  | 1, 2  |            |      |              |            |                     |
| 1.6 Fixing devices are selected for their suitability for the environment, weight of the load they are supporting and sub-strutums into which they are being installed in accordance with manufacturer specifications and safe load limits |                                                                           | Pethebridge, Electrical Wiring Practice 8e | 5.1 Accessories for fixing and support                                                                                                     | 3, 8, 9, 10, 11, 12, 14, 19, 20, 21, 22, 30 | 1, 2, 3, 7, 8, 9, 14, 17, 18, 19 | 1, 2  |            |      |              |            | Practical Task 1, 2 |
| 1.7 Supporting accessories/equipment are selected for their suitability for the environment and ability to support and protect from damage in accordance with workplace procedures                                                         |                                                                           | Pethebridge, Electrical Wiring Practice 8e | 5.1 Accessories for fixing and support                                                                                                     | 6, 18, 31, 32, 33, 35, 37, 38               | 5, 13                            |       |            |      |              |            |                     |
| 1.8 Tools, equipment and testing devices needed to carry out the work are obtained and checked for correct operation and safety in accordance with workplace procedures                                                                    |                                                                           |                                            |                                                                                                                                            | 4, 15, 16, 17, 24, 25, 26                   | 4, 6, 10, 11, 12                 |       |            |      |              |            | Practical Task 1    |
| <b>2. Install fixing and support devices</b>                                                                                                                                                                                               |                                                                           |                                            |                                                                                                                                            |                                             |                                  |       |            |      |              |            |                     |
| 2.1 Exposed and/or conductive parts, plant or machinery are confirmed as isolated in consultation with authorised person                                                                                                                   |                                                                           |                                            |                                                                                                                                            |                                             |                                  |       |            |      |              |            |                     |
| 2.2 WHS/OHS risk control measures relevant to work site are followed                                                                                                                                                                       | WHS regulation regarding training for work undertaken (WHS Regulation 39) | Pethebridge, Electrical Wiring Practice 8e | 18.1 Workshop safety practices                                                                                                             | 29                                          | 12, 20                           |       |            |      |              |            |                     |
| 2.3 Fixing devices are installed in accordance with manufacturer instructions, regulatory requirements and workplace procedures                                                                                                            |                                                                           | Pethebridge, Electrical Wiring Practice 8e | 5.1 Accessories for fixing and support                                                                                                     | 1, 2, 36                                    | 10, 15                           | 1, 2  |            |      |              |            | Practical Task 1, 2 |
| 2.4 Support accessories/equipment are installed accurately in accordance with industry technical standards, regulatory requirements and job specifications                                                                                 |                                                                           |                                            |                                                                                                                                            | 7, 34, 39                                   |                                  | 1, 2  |            |      |              |            | Practical Task 1, 2 |
| 2.5 Work is carried out without waste of materials or damage to apparatus or circuits, the surrounding environment or services and using sustainable energy practices                                                                      |                                                                           |                                            |                                                                                                                                            | 5, 27                                       |                                  | 1, 2  |            |      |              |            |                     |
| <b>3 Complete fixing and support work</b>                                                                                                                                                                                                  |                                                                           |                                            |                                                                                                                                            |                                             |                                  |       |            |      |              |            |                     |
| 3.1 WHS/OHS risk control measures for work completion are followed                                                                                                                                                                         |                                                                           | Pethebridge, Electrical Wiring Practice 8e | 18.1 Workshop safety practices                                                                                                             |                                             |                                  |       |            |      |              |            |                     |
| 3.2 Worksite is tidied and tools and equipment cleaned and securely stored in accordance with workplace procedures                                                                                                                         |                                                                           |                                            |                                                                                                                                            |                                             |                                  |       |            |      |              |            | Practical Task 1, 2 |
| 3.3 Relevant personnel are notified of work completion in accordance with workplace procedures                                                                                                                                             |                                                                           |                                            |                                                                                                                                            |                                             |                                  |       |            |      |              |            | Practical Task 1, 2 |
| <b>Performance Evidence</b>                                                                                                                                                                                                                |                                                                           |                                            |                                                                                                                                            |                                             |                                  |       |            |      |              |            |                     |
| • applying relevant workplace health and safety (WHS)/occupational health and safety (OHS) requirements                                                                                                                                    | WHS regulation regarding training for work undertaken (WHS Regulation 39) | Pethebridge, Electrical Wiring Practice 8e | 18.1 Workshop safety practices                                                                                                             | 29                                          | 16, 20                           |       |            |      |              |            | Practical Task 1, 2 |
| • applying sustainable energy principles and practices                                                                                                                                                                                     |                                                                           |                                            |                                                                                                                                            | 5, 27                                       |                                  | 1     |            |      |              |            |                     |
| • communicating effectively with relevant stakeholders                                                                                                                                                                                     |                                                                           |                                            |                                                                                                                                            |                                             |                                  |       |            |      |              |            | Practical Task 1, 2 |
| • completing fixing and support work to electrotechnology equipment                                                                                                                                                                        |                                                                           |                                            |                                                                                                                                            |                                             |                                  |       |            |      |              |            |                     |
| • completing workplace documentation                                                                                                                                                                                                       |                                                                           |                                            |                                                                                                                                            |                                             |                                  |       |            |      |              |            |                     |
| • ensuring exposed and/or conductive parts, plant or machinery are isolated by an authorised person                                                                                                                                        |                                                                           |                                            |                                                                                                                                            |                                             |                                  |       |            |      |              |            |                     |
| • installing a fixing device and accessory capable of supporting up to 20 kilograms (kg) on the metal plate                                                                                                                                | WHS regulation regarding training for work undertaken (WHS Regulation 39) | Pethebridge, Electrical Wiring Practice 8e | 5.1 Accessories for fixing and support<br>18.1 Workshop safety practices<br>18.2 Tools used in electrical work<br>18.6 Drills and drilling |                                             |                                  |       | 8, 9, 10   |      | 1            |            | Practical Task 2    |
| • using appropriate fixing methods, tools and devices to install fixings to hollow walls, solid walls, brick, concrete and steel                                                                                                           |                                                                           |                                            |                                                                                                                                            | 4, 6, 7, 8, 12, 13                          | 1, 2, 3, 5, 8, 9, 10, 11, 13     |       |            |      |              |            |                     |
| • installing, aligning and adjusting fixing devices in accordance with manufacturer instructions and load limits, including installing relevant fixing support accessories/equipment                                                       |                                                                           |                                            |                                                                                                                                            | 1, 2                                        |                                  |       |            |      |              |            |                     |
| • maintaining a clean worksite and equipment                                                                                                                                                                                               |                                                                           |                                            |                                                                                                                                            |                                             |                                  |       |            |      |              |            | Practical Task 1, 2 |
| • selecting relevant fixing devices suitable for the environment they are being installed for loads, including:<br>- less than 5 kg<br>- 5-20 kg<br>- 20-50 kg                                                                             |                                                                           | Pethebridge, Electrical Wiring Practice 8e |                                                                                                                                            |                                             |                                  |       |            |      | 1            |            | Practical Task 2    |

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