



Australian Government

UEERA0040 Evaluate and report on the indoor air quality of buildings

Release: 1

UEERA0040 Evaluate and report on the indoor air quality of buildings

Modification History

Release 1. This is the first release of this unit of competency in the UEE Electrotechnology Training Package.

Application

This unit involves the skills and knowledge required to evaluate and report on the indoor air quality in buildings.

It includes working safely, setting up and conducting evaluation measurements, evaluating air quality from measured parameters, and reporting results, including recommending any resulting corrective actions.

Permits may be required for some work environments, such as confined spaces, working aloft, near live electrical apparatus and site rehabilitation.

No licensing, legislative or certification requirements apply to this unit at the time of publication.

Pre-requisite Unit

UEECD0007 Apply work health and safety regulations, codes and practices in the workplace

UEECD0019 Fabricate, assemble and dismantle utilities industry components

UEECD0020 Fix and secure electrotechnology equipment

UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications

UEECD0016 Document and apply measures to control WHS risks associated with electrotechnology work

UEERA0059 Prepare and connect refrigerant tubing and fittings

UEERA0036 Establish the basic operating conditions of vapour compression systems

UEERA0035 Establish the basic operating conditions of air conditioning systems

UEERA0050 Install refrigerant pipe work, flow controls and accessories

UEERA0094 Verify functionality and compliance of refrigeration and air conditioning installations

UEERA0081 Select refrigerant piping, accessories and associated controls

UEERA0031 Diagnose and rectify faults in air conditioning and refrigeration control systems

UEERA0092 Solve problems in low voltage refrigeration and air conditioning circuits

UEERL0005 Locate and rectify faults in low voltage (LV) electrical equipment using set

procedures

UEERL0004 Disconnect - reconnect electrical equipment connected to low voltage (LV) installation wiring

UEERL0001 Attach cords and plugs to electrical equipment for connection to a single phase 230 Volt supply

UEERL0002 Attach cords, cables and plugs to electrical equipment for connection to 1000 V a.c. or 1500 V d.c.

Competency Field

Refrigeration and air-conditioning

Unit Sector

Electrotechnology

Elements and Performance Criteria

ELEMENTS

Elements describe the essential outcomes.

1 Prepare to evaluate and report on air quality in buildings

2 Evaluate air quality in buildings

PERFORMANCE CRITERIA

Performance criteria describe the performance needed to demonstrate achievement of the element.

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| 1.1 | Work health and safety (WHS)/occupational health and safety (OHS) procedures are obtained and implemented in accordance with workplace procedures |
| 1.2 | WHS/OHS risk control measures and workplace procedures for work are followed in preparation for the work |
| 1.3 | The extent of evaluation is determined from building ventilation/air conditioning specifications, internal/external environmental factors and discussions with relevant person/s |
| 1.4 | Advice is sought from work supervisor to ensure work is coordinated effectively with others |
| 1.5 | Tools, testing devices and materials required for the work are obtained and checked for correct operation and safety in accordance with workplace procedures |
| 2.1 | WHS/OHS risk control measures and workplace procedures for carrying out the work are followed |

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| | 2.2 | Need to test and measure live work is determined in accordance with workplace procedures and WHS/OHS requirements |
| | 2.3 | Air quality requirements and regulations in buildings are applied to the evaluation process |
| | 2.4 | Air quality evaluation tests for each parameter under scrutiny are conducted in accordance with workplace procedures and test methods |
| | 2.5 | Air quality evaluation tests are conducted methodically and results/comments systematically noted |
| | 2.6 | Unplanned situations are dealt with safely with the approval of authorised person/s |
| | 2.7 | Evaluation is conducted without damage to systems, circuits, the surrounding environment and/or services using sustainable energy practices |
| 3 | Report on air quality buildings | |
| | 3.1 | WHS/OHS work completion risk control measures and workplace procedures are followed |
| | 3.2 | Worksite is cleaned and made safe in accordance with workplace procedures |
| | 3.3 | Results of air quality evaluation, including unacceptable conditions and recommendations for improvement, are documented |
| | 3.4 | Energy evaluation report is forwarded to appropriate person/s in accordance with workplace procedures |

Foundation Skills

Foundation skills essential to performance are explicit in the performance criteria of this unit of competency.

Range of Conditions

Range is restricted to essential operating conditions and any other variables essential to the work environment.

Non-essential conditions may be found in the UEE Electrotechnology Training Package Companion Volume Implementation Guide.

Evaluating and reporting on indoor air quality • two different types of buildings with or

must include at least the following:

without air conditioning

Unit Mapping Information

This unit replaces and is equivalent to UEENEEJ137A Evaluate and report on the indoor air quality of buildings.

Links

Companion Volume implementation guides are found in VETNet - -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=b8a8f136-5421-4ce1-92e0-2b50341431b6>