



Australian Government

Assessment Requirements for UEERA0040

Evaluate and report on the indoor air quality of buildings

Release: 1

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Modification History

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

Performance Evidence

Evidence required to demonstrate competence in this unit must be relevant to and satisfy all of the requirements of the elements, performance criteria and range of conditions on at least one occasion and include:

- determining the extent of the evaluation
- setting up and conducting appropriate examinations and tests
- reporting evaluation, including recommendation for improving energy efficiency
- dealing with unplanned events
- applying environmental and sustainable energy principles and practices
- applying relevant legislations, industry standards, codes of practice and regulations
- applying relevant work health and safety (WHS)/occupational health and safety (OHS) requirements, including:
 - applying safe working practices
 - hazard identification and reporting
 - implementing risk control measures
- determining need to test or measure live work
- documenting results of air quality evaluation
- evaluating and reporting on air quality in buildings
- performing air quality evaluation tests
- preparing to evaluate and report on air quality in buildings
- resolving indoor air quality problems.

Knowledge Evidence

Evidence required to demonstrate competence in this unit must be relevant to and satisfy all of the requirements of the elements, performance criteria and range of conditions and include knowledge of:

- indoor air quality, evaluation and reporting of a building's indoor air quality, safe working practices and relevant standards, codes and regulations including:
 - indoor air quality factors:
 - interactive nature of pollutants

- comfort criteria
- source of odours
- pathway from source to occupants
- occupant activities
- impact on productivity
- causes of indoor air quality problems:
 - moisture
 - mould and mildew
 - bacterial growths
 - asbestos and other particulates
 - volatile chemicals produced in the building
 - chemical products
- heating, ventilation and air conditioning (HVAC) systems:
 - types of HVAC systems
 - system components
 - duct cleaning
 - system commissioning
 - operation of system
 - damper adjustment
- measurements:
 - common parameters to measure
 - measurement devices available
 - instrument calibration
 - analysing and interpreting results
 - laboratory tests
 - standards
 - evaluation and reporting of indoor air quality
- resolving indoor air quality problems:
 - conducting indoor air quality investigations
 - the walk-through
 - building history
 - HVAC system information
 - occupant interviews
 - troubleshooting
- indoor air quality management:
 - building indoor air quality profile
 - location of potential indoor air quality problems
 - procedures to control indoor air quality
 - communication

- response to complaints
- equipment preventive maintenance
- chemical inventory
- relevant manufacturer specifications
- relevant tools, equipment and testing devices
- relevant WHS/OHS legislated requirements, including:
 - environmental and sustainable energy principles and practices
 - risk control measures
- relevant workplace documentation
- relevant workplace policies and procedures.

Assessment Conditions

Assessors must hold credentials specified within the Standards for Registered Training Organisations current at the time of assessment.

Assessment must satisfy the Principles of Assessment and Rules of Evidence and all regulatory requirements included within the Standards for Registered Training Organisations current at the time of assessment.

Assessment must occur in workplace operational situations where it is appropriate to do so; where this is not appropriate, assessment must occur in simulated workplace operational situations that replicate workplace conditions.

Assessment processes and techniques must be appropriate to the language, literacy and numeracy requirements of the work being performed and the needs of the candidate.

Resources for assessment must include access to:

- a range of relevant exercises, case studies and/or other simulations
- relevant and appropriate materials, tools, equipment and personal protective equipment (PPE) currently used in industry
- applicable documentation, including workplace procedures, equipment specifications, regulations, codes of practice and operation manuals.

Links

Companion Volume implementation guides are found in VETNet - -

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