Australian Government

Assessment Requirements for UEERA0035 Establish the basic operating conditions of air conditioning systems

Release: 1

Assessment Requirements for UEERA0035 Establish the basic operating conditions of air conditioning systems

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 two separate occasions and include:

- applying relevant work, health and safety (WHS)/occupational health and safety (OHS) requirements, including using risk control measures
- applying safe working practices and relevant industry standards, codes of practice and regulations
- applying sustainable energy principles and practices
- completing work documentation and reporting requirements
- dealing with unplanned events/situations in accordance with workplace procedures in a manner that minimises risk to personnel and equipment
- determining the basic operating conditions of an air conditioning systems, including the air dry and wet bulb temperatures, relative humidity, air velocity and volume flow rates across a grille/register and documenting operating conditions
- identifying operating parameters not within specified range of the air conditioning system
- interpreting measurements
- selecting and using appropriate measuring devices
- using calculation methods accurately.

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:

- operating condition of air conditioning system, including:
  - air conditioning industry classifications, applications and common types of systems
  - air conditioning processes
  - air velocity, units of measurement, measuring devices (anemometer only), applications and taking readings
  - air volume flow rate and its units of measurement
  - basic air conditioning heat loads and check figures

  - factors effecting human comfort and the comfort zone
  - hazards and risk control measures
  - psychrometrics, composition of air and basic psychrometric chart properties and plotting points
  - risk management principles, processes and safe working practices
  - safety data sheets (SDS)/material safety data sheets (MSDS)
  - sustainable energy principles and practices
  - temperature and relative humidity, scales, measuring devices and taking readings
  - ventilation needs, methods and applications
  - volume flow rate calculations
- relevant industry standards, codes of practice, regulations and WHS/OHS legislated requirements
- relevant manufacturer specifications
- relevant risk mitigation processes
- 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, industry standards, 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