



Australian Government

Assessment Requirements for UEERA0056 Monitor and adjust refrigeration energy management systems

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:

- identifying system energy parameters
- monitoring and adjusting system components and controls to provide effective energy use
- ensuring system energy use is accordance with requirements
- documenting adjustment settings with established procedures
- dealing with unplanned events
- applying relevant work health and safety (WHS)/occupational health and safety (OHS) workplace procedures and practices requirements, including using risk control measures
- applying sustainable energy principles and practices
- monitoring and adjusting energy management systems on refrigeration system
- planning, monitoring and adjusting energy management systems on refrigeration system.

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:

- energy management systems for commercial refrigeration, safe working practices and relevant standards, codes and regulations, including:
 - functions of a commercial refrigeration energy management system, including:
 - general control function
 - inputs
 - outputs
 - communications
 - graphing
 - supervising
 - data logging
 - scheduling

- alarms
- power consumption
- energy management system control components, including:
 - identify components
 - pressure sensors
 - temperature sensors
 - time clocks
 - humidity sensors
 - liquid level sensors
 - leak detector sensor
 - function and operating parameters of components
 - pressure sensors
 - temperature sensors
 - time clocks
 - humidity sensors
 - liquid level sensors
 - leak detector sensors
- installation requirements and considerations, including:
 - installation of controller(s)
 - installation of refrigerant leak detector
 - systems
 - installation of accessory boards
 - installation of pressure transducers and wiring
 - installation of temperature sensors and wiring
 - control wiring considerations
- system design and applications, including:
 - control components to suit given applications
 - system operating parameters
 - pressure sensors
 - temperature sensors
 - time clocks
 - humidity sensors
 - liquid level sensors
 - leak detector sensors
 - defrost
 - alarm panel
- programming a control system, including:
 - display terminal and keypad functions
 - calibration of sensors

- changing original settings
- program a given set of parameters to suit an application
- component testing and fault finding, including:
 - troubleshooting
 - testing of components
- relevant job safety assessments or risk mitigation processes
- relevant WHS/OHS legislated requirements
- 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>