



Australian Government

UEERA0006 Apply safety awareness and legal requirements for carbon dioxide refrigerant

Release: 1

UEERA0006 Apply safety awareness and legal requirements for carbon dioxide refrigerant

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 apply safety awareness and legal requirements for carbon dioxide (CO²) refrigerant.

It includes applying safety and legal requirements when handling, using and storing CO² refrigerants.

The skills and knowledge in this unit will be applied by those managing, supervising or working in or near a location that contains refrigeration equipment using CO² refrigerant. These could include managers, supervisors, maintenance staff, cleaners, employees and refrigeration and air conditioning technicians

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

Pre-requisite Unit

Not applicable.

Competency Field

Refrigeration and air-conditioning

Unit Sector

Electrotechnology

Elements and Performance Criteria

ELEMENTS

PERFORMANCE CRITERIA

Elements describe the essential outcomes.

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

1 Prepare to work with CO²

1.1

Work health and safety (WHS)/occupational health and safety (OHS) hazards, risk control methods, relevant

refrigerant	standards, codes and legislation are obtained and applied in accordance with workplace procedures
	1.2 Electrical and non-electrical isolation are identified and carried out to prevent creation of hazards from loss of machine/system/process control in accordance with workplace procedures
	1.3 Tools and equipment needed for the work are checked for safety and correct functionality in accordance with workplace procedures and regulatory requirements
2 Apply safe work practices in using CO₂refrigerant	2.1 CO ₂ refrigerant workplace procedures and work instructions for controlling risk are followed
	2.2 Accidents, fires and emergencies are responded to in accordance with workplace procedures and within scope of own responsibility in a manner that minimises risk to personnel and equipment
3 Follow workplace procedures for hazard identification and risk control of CO₂refrigerant	3.1 CO ₂ refrigerant hazards are identified, risk assessed and control measures implemented and monitored through active participation in the consultation process with work supervisor and others
	3.2 WHS/OHS incident records are completed in accordance with regulatory requirements and workplace procedures
	3.3 CO ₂ refrigerant workplace instructions and training are followed 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.

Applying safety awareness and legal requirements for CO₂ refrigerant must include the following:

- safe handling, storage and transport of CO₂ refrigerant cylinders
- labelling requirement for CO₂ refrigerant

cylinders and systems containing CO² refrigerant

- personal protective equipment (PPE) required for the safe handling of CO² refrigerant

Unit Mapping Information

This unit replaces and is equivalent to UEENEEJ184A Apply safety awareness and legal requirements for carbon dioxide refrigerant.

Links

Companion Volume implementation guides are found in VETNet - -

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

Assessment Requirements for UEERA0006 Apply safety awareness and legal requirements for carbon dioxide refrigerant

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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 (WHS/OHS) requirements and workplace procedures and practices, including using risk control measures
- applying safe working practices to carbon dioxide (CO²) refrigerant safety data sheets (SDS)/material safety data sheets (MSDS)
- applying safe working practices to safely handle and store CO² refrigerant cylinders
- completing required documentation
- dealing with unplanned events/situations in accordance with workplace procedures in a manner that minimises risk to personnel and equipment
- participating in consultation processes, identifying hazards and implementing and monitoring control measures
- preparing to enter the workplace, including the use of work permits and clearances and isolation permissions
- taking remedial action within workplace emergency response procedures and job role.

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:

- benefits of using CO² as a refrigerant (R744)
- CO² cylinder handling and storage requirements
- CO² refrigerant properties
- chlorofluorocarbon (CFC)/hydrofluorocarbon (HFC) phase out
- emergency procedures and incident management requirements and procedures
- refrigerant 2T Hazchem codes
- relevant CO² refrigeration system manufacturer specifications
- relevant industry standards, codes and practice requirements
- relevant job safety assessments or risk mitigation processes, including personal protective

equipment (PPE)

- relevant WHS/OHS legislated requirements
- relevant workplace documentation
- relevant workplace policies and procedures
- safe working practices with CO² refrigerant
- SDS/MSDS.

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 PPE currently used in industry
- applicable documentation, including workplace procedures, equipment specifications, regulations, codes of practice and operation manuals.

Links

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