



Australian Government

UEERA0005 Apply safety awareness and legal requirements for ammonia refrigerant

Release: 1

UEERA0005 Apply safety awareness and legal requirements for ammonia 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 regulatory and industry standard requirements for ammonia refrigerant.

It includes safety and legal requirements when handling, using and storing ammonia refrigerant.

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 ammonia refrigerant. These could include managers, supervisors, maintenance staff, cleaners, employees and refrigeration and air conditioning technicians.

Dangerous goods and work health and safety (WHS)/occupational health and safety (OHS) legislative requirements apply to this unit.

Pre-requisite Unit

Not applicable.

Competency Field

Refrigeration and air-conditioning

Unit Sector

Electrotechnology

Elements and Performance Criteria

ELEMENTS

Elements describe the essential outcomes.

1 Prepare to work with

PERFORMANCE CRITERIA

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

1.1 WHS/OHS requirements and workplace procedures for

ammonia refrigerant		a given work area are identified and applied
	1.2	Work area access permits are obtained from appropriate person/s in accordance with workplace procedures and legislative requirements
	1.3	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
	1.4	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 to ammonia refrigerant	2.1	Ammonia refrigerant workplace procedures, legislative requirements and work instructions for controlling risk are followed
	2.2	Accidents, events, fires and emergencies are responded to in accordance with workplace procedures and legislative requirements 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 ammonia refrigerant	3.1	Ammonia refrigerant hazards are identified, risk assessed and control measures implemented and monitored through active participation in the consultation process with work supervisor and other person/s
	3.2	WHS/OHS incident records are completed in accordance with regulatory requirements and workplace procedures
	3.3	Ammonia 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 ammonia refrigerant must include the following:

- safe handling, storage and transport of ammonia refrigerant cylinders
- labelling requirement for ammonia refrigerant cylinders and systems containing ammonia refrigerant
- personal protective equipment (PPE) required for the safe handling of ammonia refrigerant

Unit Mapping Information

This unit replaces and is equivalent to UEENEEJ178A Apply safety awareness and legal requirements for ammonia 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 UEERA0005 Apply safety awareness and legal requirements for ammonia refrigerant

Modification History

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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, workplace procedures and practices, including:
 - using risk control measures
 - following workplace procedures for hazard identification and risk control of ammonia refrigerant
- applying safe working practices to safely handle and store ammonia refrigerant cylinders
- applying working procedures and instructions as they apply to risk control measures
- completing required documentation dealing with accidents and emergencies within the scope of responsibility
- dealing with unplanned events/situations in accordance with workplace procedures in a manner that minimises risk to personnel and equipment
- identifying ammonia (R717) refrigerant safety data sheets (SDS)/material safety data sheets (MSDS) and workplace emergency response procedures
- participating in consultation processes, identifying hazards and implementing and monitoring control measures
- preparing to enter workplace, including using work permits, 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:

- ammonia (R717) refrigerant SDS/MSDS
- emergency procedures and incident management requirements and procedures
- hazardous goods, segregation, storage and handling of ammonia refrigerant
- refrigerant disposal requirements
- relevant acts, regulations, codes of practice and industry standard requirements

- relevant ammonia cylinder safe handling and storage requirements
- relevant job safety assessments or risk mitigation processes, including safety management and risk management
- relevant WHS/OHS legislated, regulations and codes of practice related to hazards using ammonia refrigerant in refrigeration and air conditioning systems
- relevant workplace documentation
- relevant workplace policies and procedures, including specific safety procedures and work instructions related to working with refrigeration and air conditioning systems containing ammonia refrigerant
- safe work practices with ammonia refrigerant, including:
 - flammability of ammonia
 - physical effects of ammonia
 - properties of ammonia.

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, emergency response plan, equipment specifications, regulations, codes of practice and operation manuals.

Links

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