Assessment Requirements for UEERA0048 Install and commission flammable refrigerant air conditioning and refrigeration systems

Assessment Requirements for UEERA0048 Install and commission flammable refrigerant air conditioning and refrigeration 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 (WHS/OHS) requirements, including using risk control measures
- commissioning flammable refrigerants systems
- completing installation and commissioning reports and documentation
- dealing with unplanned events
- discharging/recovering and charging refrigerant/lubricants safely and without damage to components
- evacuating the system to the required level safely and without damage to components
- identifying the conditions of the refrigerant at various locations
- installing flammable refrigerants refrigeration and air conditioning systems
- installing, connecting, securing and aligning components and equipment
- locating and rectifying leaks
- preparing to install and commission flammable refrigerants refrigeration and air conditioning systems
- pressure testing the system to the required level safely and without damage to components
- reading and interpreting drawings to pipe work layouts and apparatus locations
- recording measurements
- selecting and using appropriate measuring devices correctly
- using commissioning techniques
- using sustainable energy principles and practices.

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:

- relevant codes, regulations and standards

- relevant manufacturer specifications
- relevant safe work method statements (SWMS)/job safety assessments or risk mitigation processes
- relevant site arrangements, including pipe work requirements and equipment location
- relevant special features for flammable refrigerant systems, including component compatibility, refrigerant leakage and enclosures
- relevant system diagrams
- relevant WHS/OHS legislated requirements
- relevant workplace documentation
- relevant workplace quality, policies and procedures
- sustainable energy principles and practices
- system commissioning requirements and procedures
- system, pipe work and component installation requirements 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 suitable workplace operational situations where it is appropriate to do so; where this is not appropriate, assessment must occur in simulated suitable 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 simulations
- relevant and appropriate materials, tools, facilities and equipment currently used in industry
- resources that reflect current industry practices in relation to installing and commissioning flammable refrigerant air conditioning and refrigeration system
- 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