



Australian Government

Assessment Requirements for UEERA0081 Select refrigerant piping, accessories and associated controls

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 two separate occasions and include:

- applying environmental and sustainable principles and practices
- applying relevant work health and safety (WHS)/occupational health and safety (OHS) requirements and workplace procedures and practices, including:
 - using personal protective equipment (PPE)
 - using risk control measures
- arranging pipe work to comply with regulatory and functional requirements
- completing relevant documentation
- dealing with unplanned events/situations in accordance with workplace procedures in a manner that minimises risk to personnel and equipment
- documenting pipe work arrangements, specifications for items selected and reasons for selections made
- preparing and selecting refrigerant piping, accessories and controls for refrigeration and air conditioning installations in accordance with system load and regulatory requirements, industry standards and workplace procedures, including:
 - planning the refrigerant pipe work route and arrangement in accordance with job specifications
 - reading and interpreting drawings and requirements related to the installation
 - selecting appropriate type, size and quantity of piping and tubing
 - selecting control devices that meet functional requirements
 - selecting refrigeration accessories that meets load requirements.

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:

- refrigerant liquid and vapour flow control selection, including expansion valves, solenoids and pressure regulators

- refrigerant piping layout and routing
- refrigerant piping sizing and accessories selection for suction, discharge and liquid lines
- refrigeration and air conditioning controls and capacity control selection, including pressure controls and thermostats
- relevant environmental and sustainable principles and practices, including:
 - environment protection
 - sustainable energy
 - sustainable resources
- relevant drawings and specifications, including:
 - control diagrams
 - equipment installation requirements
 - equipment layouts and drawings
 - equipment manufacturer specifications and symbols
 - job specifications
 - piping diagrams
 - site drawings
 - wiring diagrams
- relevant equipment, including software applications
- relevant industry standards, codes of practice and regulations
- relevant manufacturer instructions
- relevant problem-solving techniques
- relevant refrigerant piping, accessories and controls for refrigeration and air conditioning installations
- relevant safe work method statements (SWMS)/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 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>