



Australian Government

**Assessment Requirements for UEEIC0027
Provide solutions to pneumatic-hydraulic
system operations**

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 relevant work health and safety (WHS)/occupational health and safety (OHS) requirements, including implementing risk control measures
- applying sustainable energy principles and practices
- completing work and documenting solutions to discovered problems
- dealing with unplanned events/situations in accordance with workplace procedures in a manner that minimises risk to personnel and equipment
- giving written justification of solutions provided
- isolating work area
- obtaining tools, equipment and testing devices
- providing solutions to pneumatic-hydraulic system operations including constructing pneumatic-hydraulic circuits from control diagrams
- sourcing work materials
- taking relevant measurements accurately
- testing or measuring live circuits
- using established problem-solving methods
- working with and referring to others to solve problems.

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:

- common terms and definitions used in pneumatic components and systems
- application, operation and installation requirements of pneumatic components and systems
- interpretation and selection of manufacturer's equipment specifications to establish the performance of pneumatic components
- pneumatic circuits from control diagrams
- location and correction of faults on pneumatic components and systems

- common terms and definitions used in hydraulics components and systems
- application, operation and installation requirements of hydraulic components and systems
- interpretation and selection of manufacturer's equipment specifications to establish the performance of hydraulic components
- hydraulic circuits from control diagrams
- location and correction of faults on hydraulics components and systems
- job safety assessments or risk mitigation processes
- pneumatic-hydraulic system operation problems
- relevant manufacturer specifications, including performance of pneumatic components and hydraulic components
- relevant tools, equipment and measuring devices
- relevant WHS/OHS legislated requirements
- relevant workplace documentation
- relevant workplace policies and procedures
- risk control measures
- sustainable energy principles and practices.

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>