



Australian Government

UEEIC0026 Provide solutions to fluid circuit 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.

Application

This unit involves the skills and knowledge required to provide the solution to fluid circuit operations.

It includes identifying and providing the solution to fluid circuit operation problems, completing work and documenting solutions to the operation of fluid-controlled circuits. It also includes applying problem-solving procedures, using measuring instruments, applying appropriate circuit theorems, and providing solutions derived from measurements and calculations and justification for solutions.

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

Pre-requisite Unit

UEECD0007 Apply work health and safety regulations, codes and practices in the workplace

UEECD0019 Fabricate, assemble and dismantle utilities industry components

UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications

Competency Field

Instrumentation & Control

Unit Sector

Electrotechnology

Elements and Performance Criteria

ELEMENTS

Elements describe the essential outcomes.

1 Identify fluid circuit

PERFORMANCE CRITERIA

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

1.1 Work health and safety (WHS)/occupational health and safety (OHS) requirements and workplace procedures

operation problem	are identified and applied
	1.2 Hazards are identified, risks are assessed and control measures implemented
	1.3 Circuit problems are identified from documentation and consultation with supervisor to determine scope of work
	1.4 Advice is sought from supervisor to ensure work is coordinated effectively with relevant person/s
	1.5 Sources of materials required for work are identified in accordance with workplace procedures
	1.6 Tools, equipment and testing devices required for work are obtained in accordance with workplace procedures and checked for correct operation and safety
2 Provide solutions to fluid circuit problem	2.1 WHS/OHS risk control work measures and procedures are followed
	2.2 Need to test or measure live circuits are determined in accordance with workplace procedures
	2.3 Circuits are checked and isolated in accordance with workplace procedures
	2.4 Fluid circuit problems are solved using measured and calculated values
	2.5 Unplanned situations are responded to in accordance with workplace procedures and approval of relevant person/s in a manner that minimises risk to personnel and equipment
	2.6 Problems are solved using sustainable energy principles without wasting materials, damaging apparatus circuits, the surrounding environment or services in accordance with workplace procedures
3 Complete work and document solutions to fluid circuit problem	3.1 WHS/OHS work completion risk control measures and procedures are followed
	3.2 Worksite is cleaned and made safe in accordance with workplace procedures
	3.3 Solutions used to solve circuit problems are justified and documented in accordance with workplace procedures

- 3.4** Work completion is documented and relevant person/s notified 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.

- Fluid power circuits as they apply to problems related to engineering diagnosis and development work functions must include two of the following types of circuit problems:
- determining the operating parameters of an existing circuit
 - altering an existing circuit to comply with specified operating parameters
 - developing circuits to comply with a specified function and operating parameters
- Pumps and associated control equipment must include the following:
- hydraulic
 - pneumatic

Unit Mapping Information

This unit replaces and is equivalent to UEENEEI125A Provide solutions to fluid circuit operations.

Links

Companion Volume implementation guides are found in VETNet - -

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