



**Australian Government**

# **UEEIC0039 Solve problems in flow measurement components and systems**

**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 solve problems in flow measurement components and systems.

It includes identifying and solving problems in flow measurement components and systems as they apply to various processes and control work functions. It also includes working safely and completing documentation.

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

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

UEEIC0047 Use instrumentation drawings, specifications, standards and equipment manuals

UEEIC0041 Solve problems in pressure measurement components and systems

## Competency Field

Instrumentation & Control

## Unit Sector

Electrotechnology

## Elements and Performance Criteria

### ELEMENTS

Elements describe the essential outcomes.

#### 1 Prepare to work on flow

### PERFORMANCE CRITERIA

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

#### 1.1 Work health and safety (WHS)/occupational health and

<b>measurement components and system</b>	safety (OHS) requirements and workplace procedures for a given work area are obtained and applied
	<b>1.2</b> Hazards are identified, risks assessed and control measures implemented
	<b>1.3</b> Nature of the flow measurement problem is identified from documentation and/or appropriate person/s to determine the scope of work to be undertaken
	<b>1.4</b> Appropriate person/s is consulted to ensure work is coordinated effectively with others
	<b>1.5</b> Materials required for the work are determined in accordance with workplace procedures
	<b>1.6</b> Tools, equipment and testing devices needed to carry out the work are obtained and checked for correct operation and safety in accordance with workplace procedures
<b>2 Solve a flow measurement problems</b>	<b>2.1</b> WHS/OHS risk control work measures and workplace procedures are followed
	<b>2.2</b> Need to inspect, test or measure electrical components of live work is determined in accordance with job requirements and workplace safety procedures
	<b>2.3</b> Flow measurement apparatus is checked and isolated in accordance with WHS/OHS requirements and workplace procedures
	<b>2.4</b> Relevant methods/techniques are used to solve measurement problems and calculated values as they apply to flow measurement systems
	<b>2.5</b> Unplanned situations are responded to in accordance with workplace procedures and with the approval of an authorised person/s
	<b>2.6</b> Problems are resolved using sustainable energy principles and without damage to apparatus, the surrounding environment or services in accordance with workplace procedures
<b>3 Complete work and document work activities</b>	<b>3.1</b> WHS/OHS work completion risk control measures and workplace procedures are followed
	<b>3.2</b> Worksite is cleaned and made safe in accordance with

workplace procedures

- 3.3 Justification for solutions used to resolve flow measurement problem is documented
- 3.4 Work completion is documented and appropriate 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.

Flow measurement apparatus and system fault finding, maintenance or development work functions must include at least three of the following:

- determining the operating parameters of a flow measuring system
- setting up and calibrating a flow measuring system
- altering an existing flow measuring system to comply with specified operating parameters
- developing a flow measuring system to comply with a specified function and operating parameters

## Unit Mapping Information

This unit replaces and is equivalent to UEENEEI104A Solve problems in flow measurement components and systems.

## Links

Companion Volume implementation guides are found in VETNet - -

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