



**Australian Government**

# **UEEIC0038 Solve problems in density/level measurement components and systems**

**Release: 1**

## **UEEIC0038 Solve problems in density/level measurement components and systems**

### **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 set up density/level measurement components and systems and provide solutions to a problem as it applies to a process and control work function.

It includes working safely, setting up and calibrating density/level measuring components and systems, applying problem-solving techniques, using of a range of measuring devices, and providing solutions derived from measurements and calculations to problems in density/level measurement components and systems.

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**

#### **PERFORMANCE CRITERIA**

Elements describe the essential Performance criteria describe the performance needed to

outcomes.

demonstrate achievement of the element.

**1 Prepare to work on density/level measurement components and system**

- 1.1** Work health and safety (WHS)/occupational health and safety (OHS) requirements and workplace procedures for a given work area are obtained and applied
- 1.2** Hazards are identified, risks assessed and control measures implemented
- 1.3** Nature of the density/level measurement problem is identified from documentation or appropriate person/s to determine the scope of work to be undertaken
- 1.4** Appropriate person/s is consulted to ensure work is coordinated effectively with others
- 1.5** Materials required for the work are determined in accordance with workplace procedures
- 1.6** 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

**2 Solve density/level measurement problems**

- 2.1** WHS/OHS risk control work measures and workplace procedures are followed
- 2.2** Need to inspect, test or measure electrical components of live electrical work is determined in accordance with job requirements and workplace safety procedures
- 2.3** Density/level measurement apparatus is checked and isolated in accordance with WHS/OHS requirements and workplace procedures
- 2.4** Relevant methods are used to solve measurement problems from tests and calculated values as they apply to density/level measurement systems
- 2.5** Unplanned situations are responded to in accordance with workplace procedures and with the approval of an authorised person/s
- 2.6** Problems are resolved using sustainable energy principles and without damage to apparatus, the surrounding environment or services in accordance with workplace procedures

**3 Complete work and**

- 3.1** WHS/OHS work completion risk control measures and

**document work activities**

workplace procedures are followed

- 3.2** Worksite is cleaned and made safe in accordance with workplace procedures
- 3.3** Justification for solutions used to resolve density/level measurement problems 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.

Density/level 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 density/level measuring system
- setting up and calibrating a density/level measuring system
- altering an existing density/level measuring system to comply with specified operating parameters
- developing a density/level measuring system to comply with a specified function and operating parameters

## Unit Mapping Information

This unit replaces and is equivalent to UEENEEI103A Solve problems in density/level 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>