



Australian Government

UEEIC0043 Solve problems in temperature 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 temperature measurement components and systems as they apply to various processes and control work functions.

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

Competency Field

Instrumentation & Control

Unit Sector

Electrotechnology

Elements and Performance Criteria

ELEMENTS

Elements describe the essential outcomes.

PERFORMANCE CRITERIA

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

- 1 Prepare to work on temperature 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 temperature measurement problem is identified from documentation or appropriate person/s
 - 1.4 Appropriate person/s is consulted to ensure work is coordinated effectively with others affected by the work
 - 1.5 Materials required for 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 temperature measurement problem**
 - 2.1 WHS/OHS risk control work measures and procedures are followed
 - 2.2 Need to inspect, test or measure live electrical components is determined in accordance with WHS/OHS regulatory requirements and workplace procedures
 - 2.3 Temperature measurement apparatus is checked and isolated in accordance with workplace procedures
 - 2.4 Relevant methods are used to solve measurement problem from tests and calculated values as they apply to flow measurement components and systems
 - 2.5 Unplanned situations are responded to in accordance with workplace procedures and approval of an authorised person/s
 - 2.6 Problem is solved using sustainable energy principles and without damaging apparatus, the surrounding environment or services in accordance with workplace procedures
- 3 Complete work and document work activities**
 - 3.1 WHS/OHS work completion risk control measures and workplace procedures are followed
 - 3.2 Worksite is cleaned and made safe in accordance with

workplace procedures

- 3.3 Justification for solutions to resolve flow 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.

temperature measurement apparatus and systems as they apply to installation, fault finding, maintenance or development work functions must include at least three of the following:

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

Unit Mapping Information

This unit replaces and is equivalent to UEENEEI105A Solve problems in temperature 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>