



Australian Government

UEEAS0006 Use lead-free soldering techniques

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 use lead-free soldering techniques.

It includes working safely, performing high reliability soldering/de-soldering, checking components against job specifications, testing and following quality procedures.

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

Competency Field

Assembly

Unit Sector

Electrotechnology

Elements and Performance Criteria

ELEMENTS

Elements describe the essential outcomes.

1 Prepare to carry out lead-free soldering

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 for a given work area are identified, obtained and understood
- 1.2 WHS/OHS risk control measures for work preparation are followed

- 1.3 Scope of work is determined from documentation or from work supervisor
 - 1.4 Work is coordinated with others involved to ensure work schedules are met and safety measures are followed
 - 1.5 Materials required for work are sourced and checked for lead-free soldering requirements in accordance with workplace procedures and relevant industry standards
 - 1.6 Tools and equipment required for work are selected for their effectiveness and checked for correct operation and safety
- 2 Carry out lead-free soldering**
- 2.1 WHS/OHS risk control work measures and procedures are followed
 - 2.2 Lead-free soldering characteristic and requirements are applied to soldering/de-soldering operations
 - 2.3 Components are connected and disconnected in accordance with workplace procedures and relevant industry standards
 - 2.4 Work is carried out in accordance with quality workplace procedures and relevant industry standards
 - 2.5 Lead-free soldering is completed in acceptable timeframe, environment and workplace conditions
- 3 Check quality of lead-free soldering work**
- 3.1 WHS/OHS risk control measures for work completion are followed
 - 3.2 Quality of lead-free is checked in accordance with workplace procedures and industry standards
 - 3.3 Functional tests on lead-free soldered connections are carried out in accordance with workplace routines
 - 3.4 Actions are taken to rectify defects within the scope of work and in accordance with workplace procedures
 - 3.5 Report forms/data sheets on lead-free soldering work are completed

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 Companion Volume Implementation Guide.

Unit Mapping Information

This unit replaces and is equivalent to UEENEEA106A Use lead-free soldering techniques.

Links

Companion Volume implementation guides are found in VETNet - -

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