



**Australian Government**

# **Assessment Requirements for 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.

## Performance Evidence

Evidence required to demonstrate competence in this unit must be relevant to and satisfy all of the requirements of the elements, performance criteria and range of conditions on at least two separate occasions and include:

- adhering to quality procedures
- applying relevant work health and safety (WHS)/occupational health and safety (WHS/OHS) requirements, including using risk control measures
- carrying out functional tests on lead-free soldered connections
- carrying out lead-free soldering
- checking quality of lead-free soldering work
- following manufacturer specifications and operating instructions
- preparing to carryout lead-free soldering
- rectifying defects
- soldering and de-soldering components
- sourcing and checking materials
- using high reliability lead-free soldering/de-soldering techniques.

## Knowledge Evidence

Evidence required to demonstrate competence in this unit must be relevant to and satisfy all of the requirements of the elements, performance criteria and range of conditions and include knowledge of:

- completed soldered connections compliance requirements
- component requirements for lead-free soldering
- equipment requirements
- lead-free solder issues
- lead-free soldering cleaning requirements
- lead-free soldering safety considerations
- quality management procedures for soldering and re-work
- relevant differences, advantages and disadvantages between lead and lead-free solder
- relevant industry standards
- relevant manufacturer specifications and operating instructions

- relevant soldering tools and equipment
- relevant types of fluxes and their activity level
- relevant WHS/OHS legislated requirements
- relevant workplace documentation
- relevant workplace quality, instructions, policies and procedures
- solder types and characteristics
- soldering techniques.

## Assessment Conditions

Assessors must hold credentials specified within the Standards for Registered Training Organisations current at the time of assessment.

Assessment must satisfy the Principles of Assessment and Rules of Evidence and all regulatory requirements included within the Standards for Registered Training Organisations current at the time of assessment.

Assessment must occur in suitable workplace operational situations where it is appropriate to do so; where this is not appropriate, assessment must occur in simulated suitable workplace operational situations that replicate workplace conditions.

Assessment processes and techniques must be appropriate to the language, literacy and numeracy requirements of the work being performed and the needs of the candidate.

Resources for assessment must include access to:

- a range of relevant exercises, case studies and/or simulations
- relevant and appropriate materials, tools, facilities and equipment currently used in industry
- resources that reflect current industry practices in relation to applying lead-free soldering technology
- applicable documentation, including workplace procedures, equipment specifications, regulations, codes of practice and operation manuals.

## Links

Companion Volume implementation guides are found in VETNet - -

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