



Australian Government

**Assessment Requirements for UEEHA0002
Conduct visual and close inspection of
electrical installations for hazardous areas**

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 and performance criteria on at least two separate occasions and include:

- preparing to conduct a visual and close inspection of electrical installations for gas and dust hazardous areas, including:
 - reviewing safe work methods associated with the classified area in which the work is to be carried out
 - determining the type and location of equipment subject to the inspection
- conducting visual and close inspections of electrical installations in gas and dust hazardous areas, including:
 - obtaining interpreting and applying safe work methods
 - identifying defects impairing the integrity of the type of protection
- completing record of visual and close inspections of electrical installations in gas and dust hazardous areas, including:
 - recording defects identified in the inspection impairing the integrity of the type of protection
 - forwarding the inspection record for inclusion in the verification dossier.

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:

- purpose, scope and limitations of visual and close inspections, including:
 - inspection program for the site based on schedules specified in inspection standards
 - periodic inspection schedules covering equipment, installations and environment for:
 - flameproof - Ex 'd'
 - increased safety - Ex 'e'
 - non-sparking - Ex 'n'
 - intrinsic safety - Ex 'i'

- intrinsic safety - Ex 'iD'
- non-sparking - Ex 'nL'
- pressurisation - Ex 'p'
- pressurisation - Ex 'pD'
- protection by enclosure - Ex 'tD'
- aspects of close and visual inspections, including:
 - items subject to visual and close inspection listed in schedules specified in inspection standards
 - defects impairing the integrity of the type of protection that can be identified by visual and close inspection, including:
 - excessive corrosion
 - missing cover and mounting bolts
 - enclosure or cable damage
 - non-secured cables
 - exposed armouring/cable cores at glanding points
 - missing or illegible labels.

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 workplace operational situations where it is appropriate to do so; where this is not appropriate, assessment must occur in simulated workplace operational situations that replicate workplace conditions and include:

Where evidence is gathered from a simulated work environment, the environment shall be arranged to include the following:

- an area designated as an explosive atmosphere area which is a close facsimile of a real work environment
- an area entry point
- delineation of the area into zones for both gas and dust
- a person to act as the 'authorised person' for the site
- a qualified supervisor.

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 other simulations
- relevant and appropriate tools and testing devices and personal protective equipment (PPE) currently used in industry

- safe work methods
- site inspection schedule
- inspection reporting system
- explosion-protected electrical installation with and without defects that can be detected by visual and close inspection.

Links

Companion Volume implementation guides are found in VETNet - -

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