



Australian Government

**Assessment Requirements for UEEHA0027
Manage continuous supervision inspection
of electrical installations for hazardous
areas**

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Modification History

Release 1. This is the first release of this unit of competency in the 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:

- determining the viability of the continuous supervision inspection for a given hazardous area including:
 - assessing the availability of experienced personnel in relation to the particular hazardous area electrical installation
 - evaluating the scope of equipment to be considered under continuous supervision based on factors that can affect explosion-protection integrity, frequency of attendance, specialist knowledge, workflow and location of equipment
 - determining the frequency and grade of inspection and the content of reporting to enable meaningful analysis of equipment performance
- developing a continuous supervision inspection process for a given hazardous area including:
 - making available updated documentation necessary for inspection (and maintenance) in the continuous process including:
 - zone classification and, where included, equipment protection levels
 - equipment group and temperature class or maximum surface temperature
 - equipment characteristics
 - records to enable the explosion-protected equipment to be maintained in accordance with its type of protection
 - copies of previous inspection records
 - selecting skilled personnel to carry out inspection in the continuous supervision process based on job and regulatory requirements to undertake the extent of inspection work and the candidate's:
 - understanding of the concept of continuous supervision and the need for any reporting or analysis function
 - knowledge of the explosion-protected equipment within their area of responsibility
 - previous experience in hazardous area inspection and maintenance
 - establishing the initial and refresher training and assessment program and records to ensure the appropriate level of knowledge and skills of personnel undertaking

- inspections is maintained
- developing a document system to provide information of inspection (and maintenance) activities
- implementing and managing a continuous supervision process for a given hazardous area including:
 - providing adequate time and readily available technical support for inspections to be carried out
 - reviewing and analysing documentation to verify that the process is being followed and to ascertain its effectiveness
 - taking action to address any deficiencies found.

Knowledge 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 and include knowledge of:

- area classification including:
 - general principles and objectives
 - area classification procedures including:
 - sources and grades of release
 - type and extent of zones
 - dust layer hazards
 - application of equipment protection levels (EPL)
- electrical installation requirements associated with explosive atmospheres including:
 - design, selection and erection including:
 - documentation
 - selection of equipment
 - protection from dangerous (incendive) sparking
 - electrical protection
 - emergency switch-off and electrical isolation
 - wiring systems
 - additional requirements for each protection type
 - inspection requirements including:
 - documentation
 - applicable standards
 - competency of personnel
 - frequency of inspections—initial and periodic schedules
 - grades of inspection—visual, close, and detailed
 - additional inspection schedules for specific types of equipment
 - maintenance requirements including:
 - documentation

- remedial measures and alterations to equipment
- flexible cables
- withdrawal from service
- fastenings and tools
- environmental conditions
- isolation of equipment
- earthing and equipotential bonding
- concept, role and responsibilities of the technical person managing continuous supervision including:
 - concept of continuous supervision
 - objective of continuous supervision
 - factors to be considered in assessing the viability of inspection by continuous supervision
 - documentation
 - training of skilled personnel.

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.

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 PPE currently used in industry
- applicable documentation including:
 - available personnel WHS policy and procedures for the site
 - verification dossier for the site that includes the following:
 - area classification documents
 - plant design specifications
 - as-installed electrical equipment location and distribution drawing
 - process diagrams
 - certification documents for all installed equipment
 - relevant technical standards
 - inspection reports and maintenance records

- other plant management and maintenance persons, plant operatives and a training provider.

Links

Companion Volume Implementation Guides are found in VETNet -

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