



Australian Government

**Assessment Requirements for UEEHA0015
Supervise repair and overhaul of
explosion-protected rotating machines**

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:

- preparing for repair and overhaul work of equipment, including:
 - following quality assurance system procedures
 - gathering required documentation
- establishing the level of repair and overhaul required, including:
 - following safe work methods
 - examining equipment submitted for repair and overhaul using appropriately maintained measuring devices and instruments
 - documenting the specification for the repair and overhaul
- arranging repair and overhaul work, including:
 - selecting appropriately competent operatives to carry out repair and/or overhaul, including reclamation activities
 - providing operative with the repair and/or overhaul specifications
- verifying that equipment complies with original certification, including:
 - choosing the scope and level of tests and measurements required to verify whether the repaired and/or overhauled equipment complies with original documented requirements
 - arranging for verification of compliance tests and measurements to be carried out
 - reviewing results of verification tests and taking actions to rectify any non-compliance identified by the verification tests and measurements
- documenting repair and overhaul work, including:
 - marking equipment in accordance with standard requirements to show that equipment has been repaired
 - preparing job report of the completed repair and overhaul, including all items specified by standards and submitted to the user
 - updating the repair and overhaul undertaken in the repair facility records, including steps taken to obtain equipment documentation as required by standards.

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:

- repair and overhaul of explosion-protected equipment (common requirements), including:
 - common requirements for repair and overhaul work of explosive-protected equipment encompassing:
 - equipment with documentation and without documentation
 - statutory requirements for repair facility and user
 - instructions for the user
 - instructions for the repair facility
 - identification of repaired equipment by marking encompassing:
 - marking information
 - symbols in accordance with standards requirements
 - other situations
 - requirements for the repair and overhaul of equipment with protection level (EPL) Ga
 - limitations and requirements for the repair and overhaul of equipment with explosive-protection type special Ex 's'
- explosion-protected rotating machines, including:
 - requirements for the repair and overhaul of explosive-protection type flameproof Ex 'd' for rotating machines encompassing:
 - instructions for the repair facility - rotating machines
 - winding data and repair parameters
 - embedded winding temperature sensors
 - machine frames/enclosures and flameproof joints
 - repair of rotors
 - winding tests conducted after repair
 - machine tests after repair/overhaul
 - auxiliary equipment
 - documentation of repair/overhaul
 - requirements for the repair and overhaul of explosive-protection type increased safety Ex 'e' for rotating machines encompassing:
 - instructions for the repair facility - rotating machines
 - winding data and repair parameters
 - embedded winding temperature sensors
 - machine frames/enclosures, clearances and terminations
 - repair of rotors
 - winding tests conducted after repair
 - machine tests after repair/overhaul
 - documentation of repair/overhaul

- evaluation procedures and parameters encompassing overhaul of equipment protected by enclosures Ex 't' (dip) motors.

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 personal protective equipment (PPE) currently used in industry
- safe work methods
- a certified quality management system
- documentation and record systems required of a workshop certified to undertake repair and overhaul of explosive-protected equipment
- relevant equipment standards and manufacturer's data
- equipment to be repaired/overhauled.

Links

Companion Volume implementation guides are found in VETNet - -

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