



Australian Government

Assessment Requirements for UEEHA0030 Repair reeling, trailing and flexible cables used in coal mining

Release: 1

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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:

- preparing to repair cables including:
 - reviewing safe work methods
 - receiving and understanding work instructions
 - obtaining and checking material required for the work against the work instructions
 - obtaining tools and equipment needed and checks them for correct operation and safety
- repairing cables including:
 - selecting four or more different cable types and voltages which collectively incorporate the features specified in AS/NZS 1747
 - confirming and accepting safe work methods
 - following repair instructions for each including:
 - removing damaged cable material and preparing a cable for repair
 - splicing and joining cable conductors correctly as required
 - replacing insulation and covering of conductors and outer sheath correctly as required
 - joining pliable cable armour correctly
 - applying cable sheath tape and vulcanizes at the required temperature, timed to ensure as new electrical and mechanical properties are retained
 - following safe work methods for 'house-keeping' at the completion of work
- documenting cable repair including:
 - filling out work completion sheet accurately
 - notifying the responsible supervisor that the work is completed.

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:

- cable types including:

- cable construction, materials and features of cable components
- function of each cable component
- conditions under which cables should be stored
- Standards to which cables are manufactured
- typical applications of specific cables
- cable repair preparation and conductor splicing methods including:
 - criteria for determining the section of cable suitable to be joined
 - cable preparation and methods
 - splicing methods and application for power, pilot and earthing conductors
- replacement of cable insulation including:
 - preparation of power conductors prior to the application of insulation
 - types of insulation repair tapes and their application
 - techniques for applying insulation repair tape
- techniques for joining pliable wire armour including:
 - cable manufacturers recommendation
 - established workshop procedures
- replacing and repairing cable sheath including:
 - techniques used in replacing cable sheath
 - setting up a vulcanizer to vulcanize a repair
 - vulcanizing techniques and issues.

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
- safe work method documentation
- resources relevant to the cable repairs undertaken and required to be a recognised cable repair workshop to the scope of AS/NZS 1747 with ISO 9001 type quality assurance.

Links

Companion Volume Implementation Guides are found in VETNet -

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