



Australian Government

Assessment Requirements for MEM18105 Disconnect and reconnect high voltage fixed wired equipment

Release: 2

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Modification History

Release 2. Prerequisite units updated

Release 1. New unit

Performance Evidence

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

- following work instructions, SOPs and safe work practices
- identifying and interpreting specifications, charts, lists, circuit drawings, schematics, regulatory and legislative requirements to disconnect/reconnect HV fixed wired equipment
- checking that the electrical equipment is isolated and tagged where necessary in strict accordance with WHS requirements and procedures using appropriate lock-off equipment and tags/signs
- disconnecting equipment by labelling and recording conductors and making safe disconnected cables/connections using appropriate tools, test equipment, procedures and techniques
- confirming isolation prior to reconnecting fixed wired equipment and checking connections and preparing conductors for termination in accordance with manufacturer specifications and regulatory requirements
- testing conductors prior to connection to ensure continuity, and insulation resistance readings comply with following requirements:
 - checking continuity of the protective earth conductor to determine whether it is sufficiently low
 - testing the resistance between the protective earth conductor and the neutral conductor to determine whether it is sufficiently low – not greater than 2 Ohms
 - testing the insulation resistance of active conductors to confirm that it is greater than 1 Megohm
- testing to ensure continuity is confirmed between the exposed conductive parts of the equipment and the main earth or metal switchboard enclosure
- connecting conductors to equipment and fasten/seal cables/wires/conduits using appropriate procedures and tools to relevant specifications and regulatory requirements
- removing all lock-off devices and signage and checking/testing equipment and circuits for compliance to specifications
- rescuing/recovering of injured person in accordance with appropriate standards/procedures and provide first aid, including cardiopulmonary resuscitation (CPR) where appropriate, and contacting the appropriate medical and rescue authorities
- recording details of first aid given.

Knowledge Evidence

Evidence required to demonstrate the required knowledge for this unit must be relevant to and satisfy the requirements of the elements and performance criteria and include knowledge of:

- safe work practices and procedures and use of PPE
- any applicable industry standards, national/Australian Standards, NOHSC guides, state/territory regulatory codes of practice/standards and relevant regulatory requirements
- characteristics of the circuit and the equipment, including rating and rotation
- points of isolation for the fixed wired equipment and reasons for selecting the particular isolation point) and reasons for using earthing, lock-off equipment and signs
- clearances from live parts
- safe isolation
- operational specifications of the fixed wired equipment and connections to be made
- procedures for confirming electrical isolation of fixed wired equipment and circuits
- procedures, techniques, tools and equipment to be used for disconnecting/reconnecting conductors
- test requirements to ensure compliant continuity and insulation resistance of conductors
- test requirements to ensure continuity between exposed conductive parts of the equipment and the main earth or metal switchboard enclosure
- potential dangers/risks associated with work
- recognised procedures for the movement and treatment of the injured person, including HV rescue, clearing of airways, CPR, care of spinal injuries, treatment of cuts/lesions, burns/scalds and treatment of shock
- appropriate local medical and rescue services
- procedures for incident reporting.

Assessment Conditions

Assessors must:

- have vocational competency in disconnecting and reconnecting HV fixed wired equipment at least to the level being assessed with relevant industry knowledge and experience.
- satisfy the assessor requirements in the *Standards for Registered Training Organisations 2015* and comply with the *National Vocational Education and Training Regulator Act 2011* or equivalent legislation covering VET regulation in a non-referring State as the case requires.

Where possible assessment must occur in operational workplace situations. Where this is not possible or where personal safety or environmental damage are limiting factors, assessment must occur in a sufficiently rigorous simulated environment that reflects realistic operational workplace conditions that cover all aspects of workplace performance, including environment, task skills, task management skills, contingency management skills and job role environment skills.

Conditions for assessment must include access to all tools, equipment, materials and documentation required, including relevant workplace procedures, product and manufacturer specifications.

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.

Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=b7050d37-5fd0-4740-8f7d-3b7a49c10bb2>