



Australian Government

Assessment Requirements for UEEEL0051

Investigate and report on electrical incidents and causes

Release: 2

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Modification History

Release 2. Minor Change. Typographic error in prerequisites corrected.

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 one occasion and include:

- recreating incident situation as accurately as evidence indicates
- interviewing and taking witness statements in accordance with workplace procedures
- gathering relevant physical evidence and treating it in accordance with workplace procedures
- documenting evidence gathered at the site, including:
 - aspects of the electrical installation that do not comply with safety standards and requirements
 - forensic evidence removed for analysis
 - written and photographic evidence
 - workplace procedures and results of tests undertaken
- documenting electrical investigation procedures, findings and conclusions appropriately
- reviewing scope and extent of the investigation from initial notification of the electrical incident
- taking appropriate actions to prevent any unsafe electrical hazards found on the site from posing a risk of any further injury or damage
- using deductive methods to determine the cause or causes of the electrical incident.

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:

- electrical incidents - investigation and reporting
- procedures and protocols for giving evidence in court encompassing:
 - process for responding to a witness summons
 - requirements for preparing to appear in court to give evidence
 - court procedures and protocols for giving evidence

- procedures and processes for responding to reported electrical incidents encompassing:
 - reporting requirements of the electricity legislation for electrical accidents on customer's premises
 - responsibility for investigating electrical accidents on customer's premises
 - reporting procedures of electrical accidents on consumer's premises and distributor's assets
 - actions to be taken when an electrical incident causes loss of life, personal injury or property damage
 - initial task of an investigator of an electrical incident
 - extent of evidence needed to be gathered from the site of an electrical incident
- conditions and actions that could result in death, injury or property damage from an electrical cause encompassing:
 - non-compliance defects of an electrical installation
 - connection or use of unsuitable (not approved) electrical equipment and appliances
 - failure to follow safe working procedures
 - deliberate misuse
 - unacceptable rise in potential of exposed and extraneous conductive parts
- causes of rise in potential of exposed and extraneous conductive parts encompassing:
 - high impedance in the main or service neutral conductor of a multiple earthed neutral (MEN) system
 - earth faults
 - high impedance in the protective earthing under fault conditions
 - ineffective equipotential bonding under fault conditions
 - ineffective protective device under fault conditions
- effects and consequences of current through the human body
- electrical sources of fire in building and premises
- advanced electrical testing and measuring devices encompassing:
 - testing/measuring devices and their application
 - safe connection of testing/measuring devices into a circuit
 - taking readings
 - storage, maintenance and care of testing/measuring devices
- problem-solving techniques
- relevant industry standards
- relevant manufacturer specifications and operating instructions for tools and equipment
- relevant job safety assessments or risk mitigation processes
- relevant tools, equipment, resources and materials
- relevant WHS/OHS legislated requirements
- relevant workplace documentation
- relevant workplace policies, procedures and instructions, including legal requirements for the removal of evidence from site.

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 suitable workplace operational situations where it is appropriate to do so; where this is not appropriate, assessment must occur in simulated suitable 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 simulations
- relevant and appropriate materials, tools, facilities, equipment and personal protective equipment (PPE) currently used in industry
- applicable documentation, including workplace procedures, equipment specifications, regulations, codes of practice and operation manuals.

Links

Companion Volume implementation guides are found in VETNet - -

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