



Australian Government

Assessment Requirements for UEEEL0050

Install and replace low voltage current transformer metering

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:

- inspecting and evaluating safety and functionality compliance of the switchboard accurately
- following established procedures to obtain approval to rectify non-compliance aspects of the switchboard
- carrying out preparation work effectively
- rectifying compliance defects
- placing and securing metering correctly
- making power and communications connections in accordance with manufacturer specifications and functional and regulatory requirements
- setting meter parameters in accordance with manufacture's specifications and functional and regulatory requirements
- reinstating supply to the installation safely
- documenting current transformer (CT) metering and rectification work and notifying appropriate persons in accordance with established procedures
- dealing with unplanned events
- applying relevant work health and safety (WHS)/occupational health and safety (OHS) requirements, including using risk control measures
- applying sustainable energy practices
- completing activities
- following quality, workplace procedures and instructions
- preparing, installing and replacing CT energy metering
- selecting metering and CT components
- using tools, equipment, personal protective equipment (PPE) and testing devices
- reporting work activities.

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:

- low voltage (LV) CT metering, including:
 - CTs encompassing:
 - uses and functions
 - AS 60044.1-2007 Instrument transformers - Current transformers, requirements
 - characteristics and saturation
 - differences between metering and protection CTs
 - standard ratios and outputs
 - accurate range of loading
 - thermal current limit
 - burden and connecting cable length
 - short circuiting secondary as a safety issue
 - accuracy class
 - revenue meter types used with CTs:
 - CT installations encompassing:
 - uses in the regulated market and relevant regulations
 - types and mounting methods
 - switchboard layouts (various distributors)
 - minimum spacing of CTs
 - connections to single and polyphase revenue meters
 - consequence of polarity reversal in one phase of a polyphase meter
- problem-solving techniques
- relevant industry standards
- relevant quality workplace procedures
- relevant tools, equipment and testing devices
- relevant job safety assessments or risk mitigation processes
- relevant manufacturer specifications and operating instructions
- relevant sustainable energy practices
- relevant WHS/OHS legislated requirements
- relevant workplace documentation
- relevant workplace policies, procedures and instructions.

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 similar workplace operational situations where it is appropriate to do so; where this is not appropriate, assessment must occur in simulated similar 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 PPE currently used in industry
- applicable documentation, including workplace procedures, equipment specifications, regulations, relevant industry standards, 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>