



Australian Government

Assessment Requirements for UEEEL0057

Plan electrical installations with a low voltage demand up to 400 A per phase

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:

- arranging electrical installations to comply with control, metering, safety and other regulatory and functional requirements
- specifying appropriate type and size of cables
- specifying protection methods and devices that meet coordination requirements for overload and short circuit protection
- specifying switchgear and control gear that meet fault level, current, voltage and ingress protection (IP) ratings and functional requirements
- selecting appropriate earthing system components
- documenting installation plan, specifications of equipment, equipment locations, cable routes and schedules and supporting calculations
- arranging electrical installations to comply with control, metering, safety and other regulatory and functional requirements
- applying relevant work health and safety (WHS)/occupational health and safety (OHS) requirements, including using risk control measures
- applying sustainable energy practices
- following workplace procedures
- identifying cable protection and switchgear, including:
 - identifying protection methods and devices
 - identifying switchgear and control gear
- planning electrical installations, including applying job specifications.

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) electrical installations with demand of up to 400 ampere (A) per phase,

including:

- electrical metering arrangements encompassing:
 - purpose, types and applications
 - metering equipment
 - arrangements for metering
- ingress protection rating
- relevant industry standards, including cable protection and switchgear
- relevant manufacturer specifications
- relevant job safety assessments or risk mitigation processes
- relevant WHS/OHS legislated requirements
- relevant workplace documentation
- relevant workplace policies and procedures.

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, 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>