



Australian Government

**Assessment Requirements for
UETDRDS015 Assess distributed energy
resource connections to a distribution
network**

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Modification History

Release 1. This is the first release of this unit of competency in the UET Transmission, Distribution and Rail Sector Training Package Release 4.0.

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 (2) separate occasions and include:

- determining project requirements
- determining design specifications
- obtaining, inspecting and using relevant personal protective equipment (PPE) for site inspection
- determining requirements for site inspections in accordance with workplace requirements
- prioritising and sequencing work for completion in accordance with workplace requirements
- performing at least one site inspection
- applying sustainable energy principles and practices
- checking connection assessment for compliance against legislation, regulations, standards and codes of practice
- identifying, and minimising or eliminating health and safety risks by using safety and control measures
- performing ongoing quality checks of work in accordance with workplace requirements
- checking final design against project and workplace requirements
- completing relevant work records, reports and documentation
- using engineering applications software to assess impact of distributed energy resource (DER) on the network
- completing three (3) assessments of a DER connection using at least two (2) of the following project types:
 - solar
 - wind
 - hydro
 - hydrogen
 - wave
 - battery
- completing the following checks for each of the assessments:
 - voltage rise test
 - phase balance test

- accredited DER equipment is used
- network suitability
- single line diagram
- reverse power flow
- recommending solutions for each of the assessments on identified generation, supply and load issues.

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:

- grid connected distributed energy resources, including:
 - types
 - sustainability
 - impacts on existing network
- procedures for validating DER connections to a distribution network
- procedures for documenting and reporting recommended solutions for identified generation, supply and load issues
- types and application of PPE for site inspection
- manuals, diagrams and drawings.

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 conditions involving realistic and authentic activities that replicate operational 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:

- relevant and appropriate materials, tools, facilities, equipment and PPE currently used in industry
- applicable documentation, including workplace requirements, relevant industry standards, 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=229bace1-b7bc-4653-9300-dffb13ecfad7>