

Assessment Requirements for UETTDRTP24 Erect power systems transmission structure hardware

Release: 1

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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.

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 separate occasions and include:

- applying relevant work health and safety (WHS)/occupational health and safety (OHS) requirements, including the use of risk control measures
- applying sustainable energy principles and practices
- erecting hardware on at least one (1) of the following structures:
 - pyramid
 - delta
 - pi
 - enterprise-specific types
- erecting at least one (1) of the following pieces of hardware:
 - insulators
 - bolts
 - clamps
- erecting transmission hardware using at least one (1) of the following methods:
 - crane
 - gin pole
- dealing with unplanned events on at least one (1) occasion.

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:

- requirements for the use of enterprise vehicles, such as trucks and four-wheel drives, encompassing:
 - standards, codes, legislation, supply authority regulations and/or enterprise requirements associated with safe use of enterprise vehicles, including relevant certification and licensing, such as motor cars, light and heavy commercial trucks, heavy truck/trailer combination and four-wheel drive vehicles

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- compliance with regulations associated with the securing of loads prior to transportation
- generation systems encompassing:
 - methods of generating electricity types of power stations and reasons for their location,
 and layout of thermal and hydroelectric power stations
 - relationship between power control and load requirements operating speeds for thermal and hydroelectric generating sets, typical generator voltage levels and output ratings
 - the purpose and features of typical types of co-generation systems
- transmission, distribution and rail systems encompassing:
 - relationship between the transmission, distribution and rail/tram system within an overall power system - different organisations responsible for generation, transmission, distribution and rail/tram; how they correlate and their functions
 - characteristics of a transmission, distribution and rail system principal components; typical voltage levels and methods of transmission and distribution, including grid type transmission systems; and radial, parallel and ring main feeders
 - relationship between an overhead and underground supply systems within an overall power system advantages/disadvantages, applications and the basic steps for planning and installing an overhead and underground distribution system
 - single line drawings and layouts drawings and layouts of transmission and distribution systems, including, radial, parallel and ring main feeders; and the high voltage (HV) equipment associated with substations.

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:

- a range of relevant exercises, case studies and/or other simulations
- relevant and appropriate materials, tools, equipment and personal protective equipment (PPE) currently used in industry
- applicable documentation, including workplace procedures, equipment specifications, regulations, codes of practice and operation manuals.

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Links

 $\label{lem:companion} \begin{tabular}{ll} \textbf{UET Training Package Companion Volume Implementation Guide is found in VETNet-https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=229bace1-b7bc-4653-9300-dffb13ecfad7-pages/dffb13e$

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