



Australian Government

**Assessment Requirements for UEEEC0035
Fault find and repair satellite-based
surveillance and observation systems**

Release: 1

Assessment Requirements for UEEEC0035 Fault find and repair satellite-based surveillance and observation systems

Modification History

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:

- applying logical diagnostic methods
- applying relevant risk identification, assessment, reporting and control requirements
- 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
- coordinating work with relevant person/s
- dealing with unplanned events
- determining live testing/measurement requirements
- determining scope of work
- documenting fault rectification
- identifying and accessing materials, tools, apparatus and testing devices
- identifying faults and competency needed to rectify them
- isolating circuits/machines/system.
- rectifying faults in system electronics
- using fault scenarios to test the source of system faults
- verifying that the system operates correctly.

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:

- satellite-based surveillance and observation systems, fault finding and repair, safe working practices and relevant standards, codes and regulations, including:
 - types of satellite systems and sub-systems
 - earth station locality and antenna parameters
 - link specifications and link calculations
 - base band signalling processes

- modulation and system access
- sub-system components (i.e. functional blocks) and their operating parameters
- environment factors effecting system performance
- typical faults, their symptoms and cause
- fault diagnosis procedures and testing
- component replacement
- sub-system adjustments
- relevant manufacturer specifications
- relevant safe work method statements (SWMS)/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 suitable simulated 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, equipment and personal protective equipment (PPE) currently used in industry
- resources that reflect current industry practices in relation to diagnosing and rectifying faults in satellite-based surveillance and observation systems
- 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>